


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>				
<b>APPLICATION FOR PERMIT TO DRILL</b>						1. WELL NAME and NUMBER GMBU X-2-9-17				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT MONUMENT BUTTE				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME GMBU (GRRV)				
6. NAME OF OPERATOR NEWFIELD PRODUCTION COMPANY						7. OPERATOR PHONE 435 646-4825				
8. ADDRESS OF OPERATOR Rt 3 Box 3630 , Myton, UT, 84052						9. OPERATOR E-MAIL mcrozier@newfield.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU-79013			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		636 FNL 728 FWL		NWNW	11	9.0 S	17.0 E	S		
Top of Uppermost Producing Zone		214 FNL 1138 FWL		NWNW	11	9.0 S	17.0 E	S		
At Total Depth		166 FSL 1531 FWL		SESW	2	9.0 S	17.0 E	S		
21. COUNTY DUCESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 166			23. NUMBER OF ACRES IN DRILLING UNIT 20				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1091			26. PROPOSED DEPTH MD: 6193 TVD: 6070				
27. ELEVATION - GROUND LEVEL 5087			28. BOND NUMBER WYB000493			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 437478				
<b>Hole, Casing, and Cement Information</b>										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	12.25	8.625	0 - 300	24.0	J-55 ST&C	8.3	Class G	138	1.17	15.8
Prod	7.875	5.5	0 - 6193	15.5	J-55 LT&C	8.3	Premium Lite High Strength	290	3.26	11.0
							50/50 Poz	363	1.24	14.3
<b>ATTACHMENTS</b>										
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Mandie Crozier				TITLE Regulatory Tech			PHONE 435 646-4825			
SIGNATURE				DATE 09/21/2012			EMAIL mcrozier@newfield.com			
API NUMBER ASSIGNED 43013517340000				APPROVAL  Permit Manager						

NEWFIELD PRODUCTION COMPANY  
GMBU X-2-9-17  
AT SURFACE: NW/NW SECTION 11, T9S R17E  
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' – 1340'
Green River	1340'
Wasatch	6060'
<b>Proposed TD</b>	<b>6193'</b>

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation (Oil) 1340' – 6060'

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH
Water Classification (State of Utah)	Dissolved Calcium (Ca) (mg/l)
Dissolved Iron (Fe) (ug/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Carbonate (CO <sub>3</sub> ) (mg/l)
Dissolved Bicarbonate (NaHCO <sub>3</sub> ) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO <sub>4</sub> ) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

4. **PROPOSED CASING PROGRAM**

**a. Casing Design: GMBU X-2-9-17**

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	300'	24.0	J-55	STC	2,950 17.53	1,370 14.35	244,000 33.89
Prod casing 5-1/2"	0'	6,193'	15.5	J-55	LTC	4,810 2.44	4,040 2.05	217,000 2.26

Assumptions:

- 1) Surface casing max anticipated surface press (MASP) = Frac gradient – gas gradient
- 2) Prod casing MASP (production mode) = Pore pressure – gas gradient
- 3) All collapse calculations assume fully evacuated casing w/ gas gradient
- 4) All tension calculations assume air weight

Frac gradient at surface casing shoe = 13.0 ppg  
 Pore pressure at surface casing shoe = 8.33 ppg  
 Pore pressure at prod casing shoe = 8.33 ppg  
 Gas gradient = 0.115 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

**b. Cementing Design: GMBU X-2-9-17**

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft <sup>3</sup> /sk)
			ft <sup>3</sup>			
Surface casing	300'	Class G w/ 2% CaCl	138 161	30%	15.8	1.17
Prod casing Lead	4,193'	Prem Lite II w/ 10% gel + 3% KCl	290 944	30%	11.0	3.26
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363 451	30%	14.3	1.24

\*Actual volume pumped will be 15% over the caliper log

- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours
- Compressive strength of tail cement: 2500 psi @ 24 hours

Hole Sizes: A 12-1/4" hole will be drilled for the 8-5/8" surface casing. A 7-7/8" hole will be drilled for the 5-1/2" production casing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

5. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

From surface to  $\pm 300$  feet will be drilled with an air/mist system. The air rig is equipped with a 6 1/2" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about  $\pm 300$  feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Production will **visually** monitor pit levels and flow from the well during drilling operations.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 300' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +/- . A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated

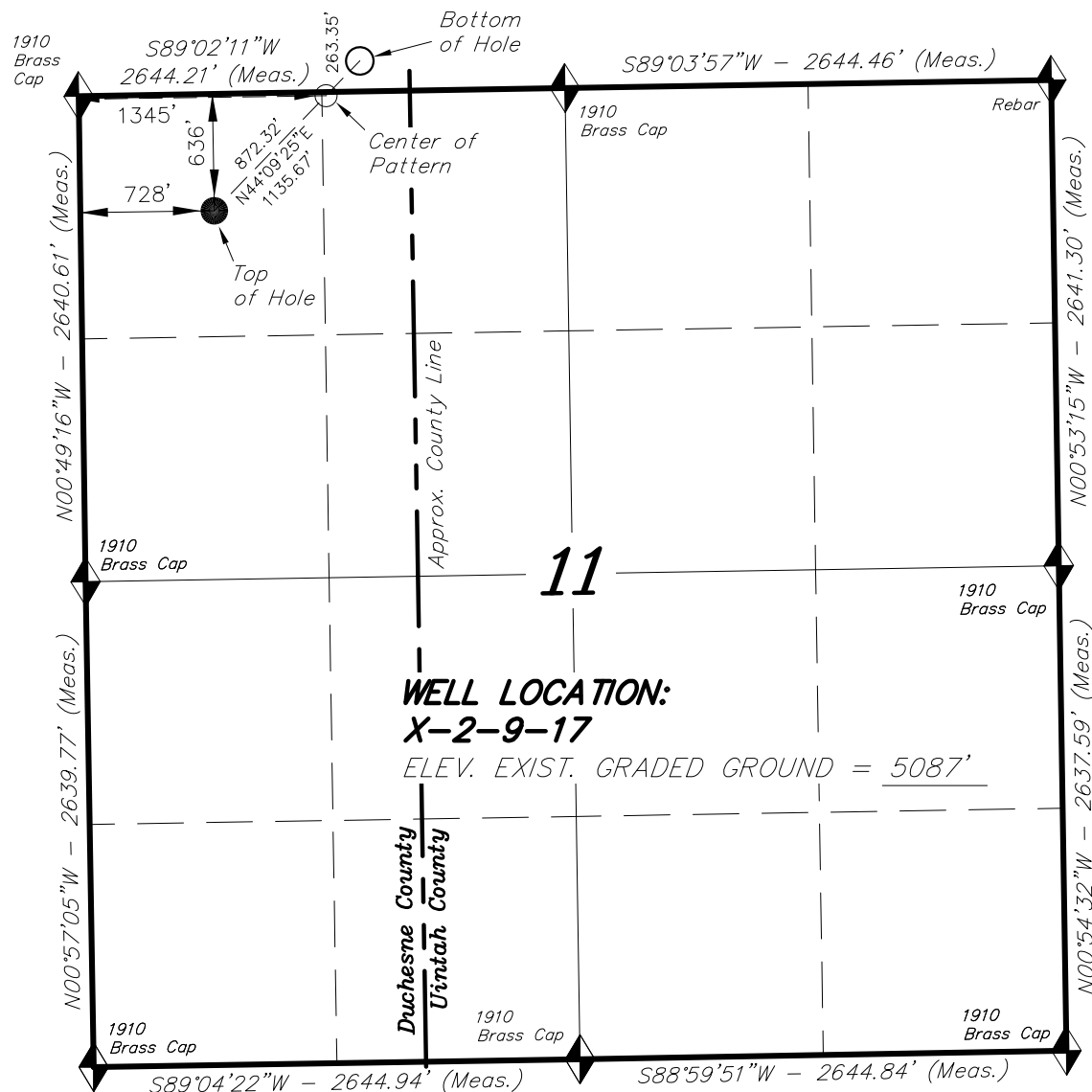
bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence the first quarter of 2013, and take approximately seven (7) days from spud to rig release.

*T9S, R17E, S.L.B.&M.*

*NEWFIELD EXPLORATION COMPANY*

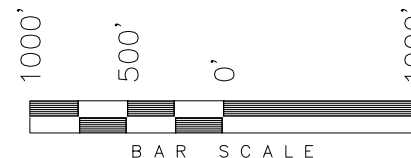


 = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are based on  
an N.G.S. OPUS Correction. LOCATION:  
LAT. 40°04'09.56" LONG. 110°00'43.28"  
(Tristate Aluminum Cap) Elev. 5281.57'

<b>NAD 83 (SURFACE LOCATION)</b>
LATITUDE = 40°03'03.38"
LONGITUDE = 109°58'50.50"
<b>NAD 27 (SURFACE LOCATION)</b>
LATITUDE = 40°03'03.51"
LONGITUDE = 109°58'47.97"

WELL LOCATION, X-2-9-17, LOCATED  
AS SHOWN IN THE NW 1/4 NW 1/4 OF  
SECTION 11, T9S, R17E, S.L.B.&M.  
DUCHESNE COUNTY, UTAH.



NOTES:

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Center of Pattern footages are 20' FNL & 1345' FWL.



THIS IS TO CERTIFY THAT THE ABOVE PLAN WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST  
OF MY KNOWLEDGE AND BELIEF.

07-12-12

STACY W.

STEWART

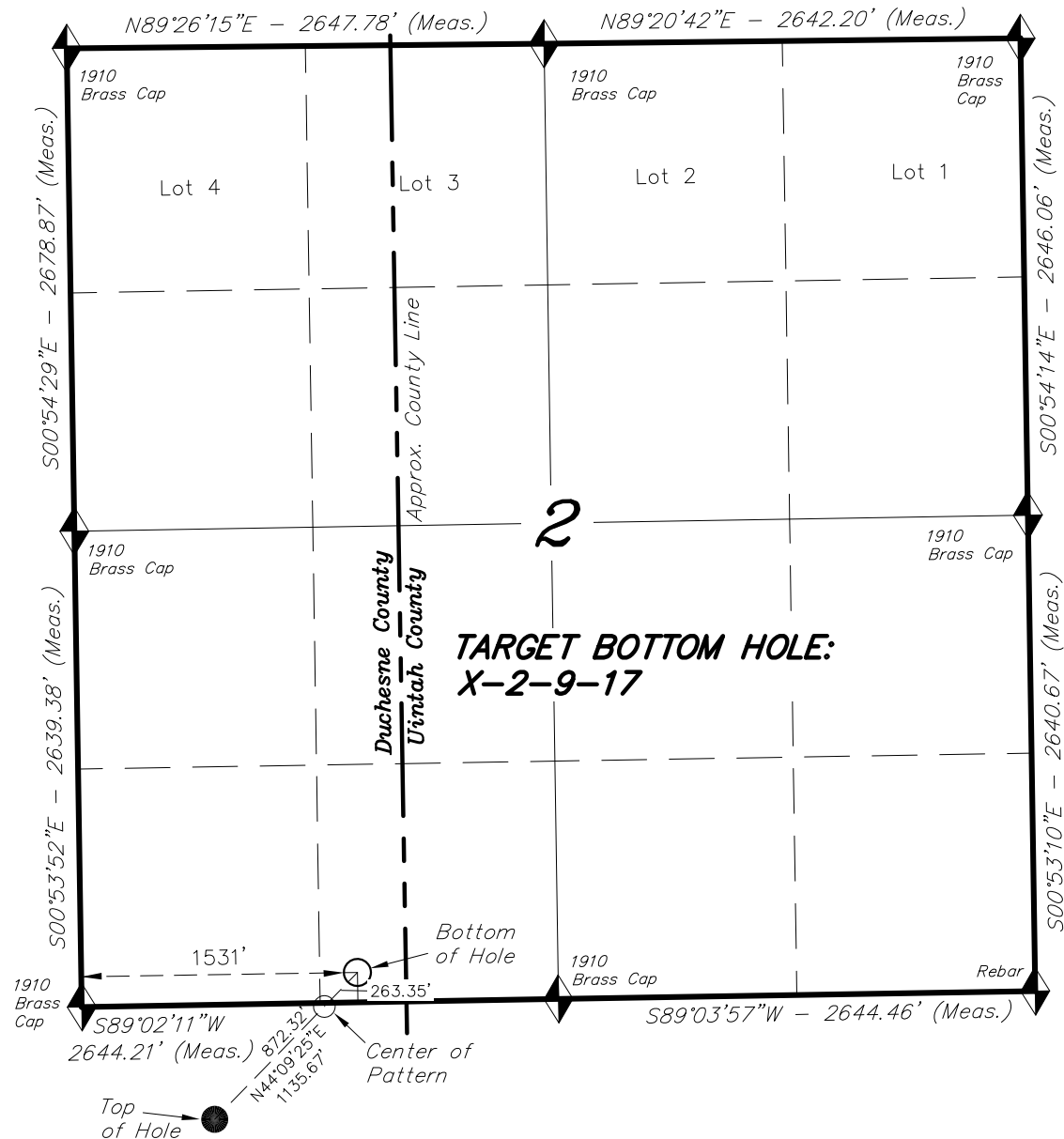
REGISTERED LAND SURVEYOR  
REGISTRATION No. 100337  
STATE OF UTAH

*TRI STATE LAND SURVEYING & CONSULTING*

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 06-29-11	SURVEYED BY: S.H.	VERSION:
DATE DRAWN: 07-21-11	DRAWN BY: M.W.	V3
REVISED: 07-12-12 F.T.M.	SCALE: 1" = 1000'	

RECEIVED: September 21, 2012

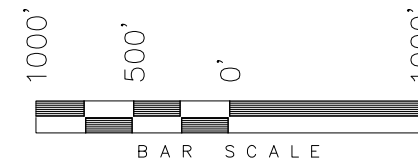
**T9S, R17E, S.L.B.&M.**

BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

NAD 83 (BOTTOM HOLE LOCATION)
LATITUDE = 40°03'11.30"
LONGITUDE = 109°58'40.15"
NAD 27 (BOTTOM HOLE LOCATION)
LATITUDE = 40°03'11.43"
LONGITUDE = 109°58'37.62"

**NEWFIELD EXPLORATION COMPANY**

TARGET BOTTOM HOLE, X-2-9-17, LOCATED AS SHOWN IN THE SE 1/4 SW 1/4 OF SECTION 2, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

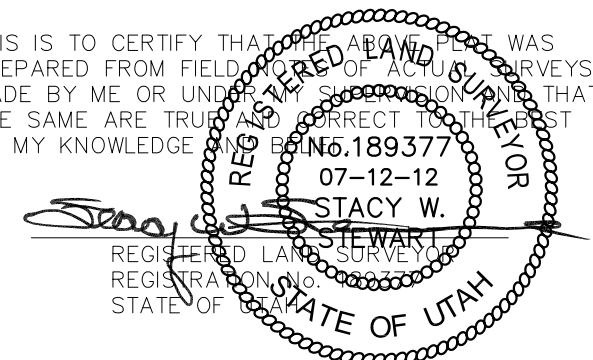
**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Bottom of Hole footages are 166' FSL & 1531' FWL.



= SECTION CORNERS LOCATED

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

**TRI STATE LAND SURVEYING & CONSULTING**

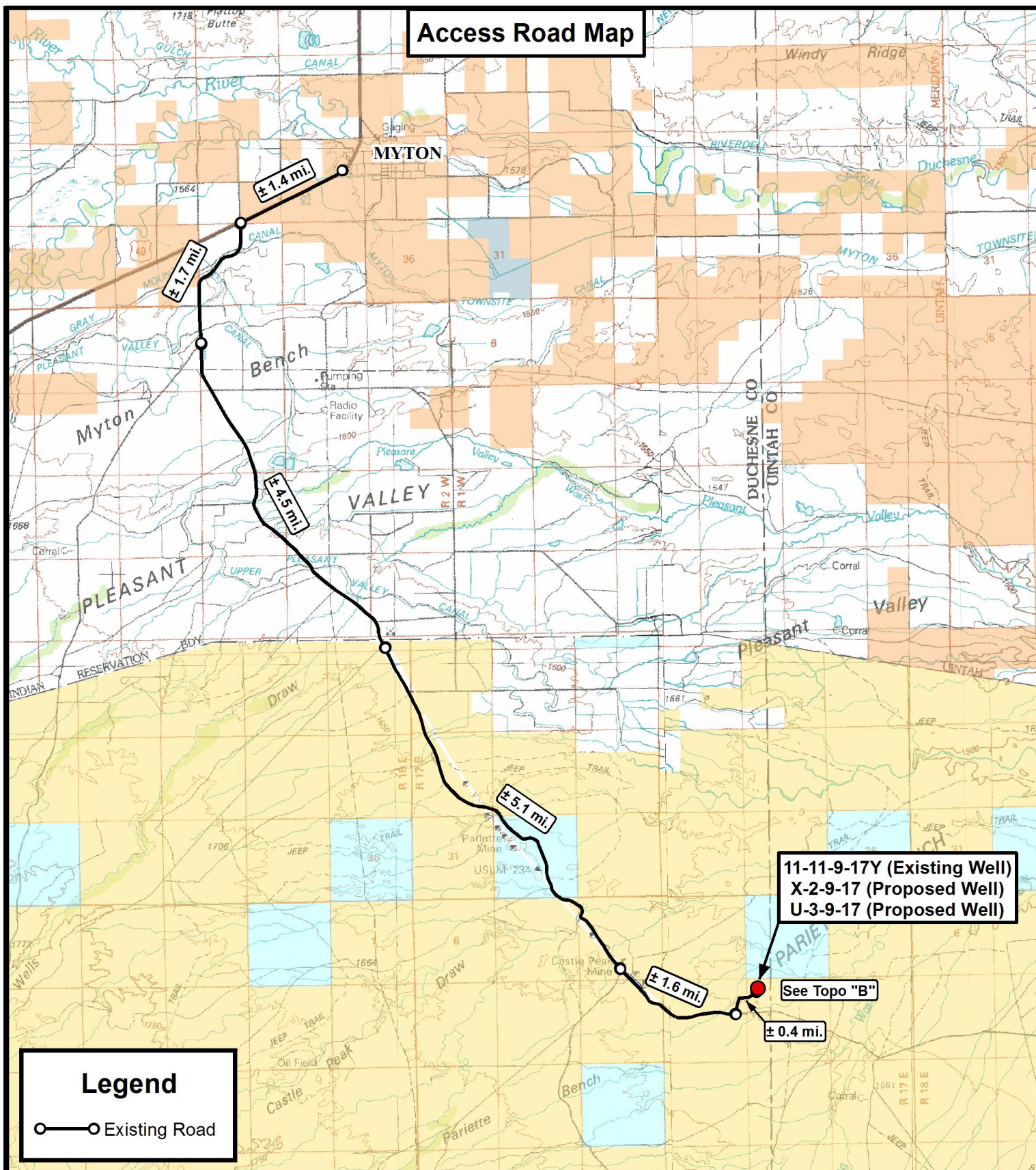
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DATE SURVEYED: 06-29-11	SURVEYED BY: S.H.	VERSION:
DATE DRAWN: 07-21-11	DRAWN BY: M.W.	V3
REVISED: 07-12-12 F.T.M.	SCALE: 1" = 1000'	

**RECEIVED: September 21, 2012**



## Access Road Map



180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
F: (435) 781-2518**NEWFIELD EXPLORATION COMPANY**

11-11-9-17Y (Existing Well)  
 X-2-9-17 (Proposed Well)  
 U-3-9-17 (Proposed Well)  
 SEC. 11, T9S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY: D.C.R. REVISED: 07-12-12 A.P.C. VERSION:

DATE: 07-25-2011

SCALE: 1:100,000

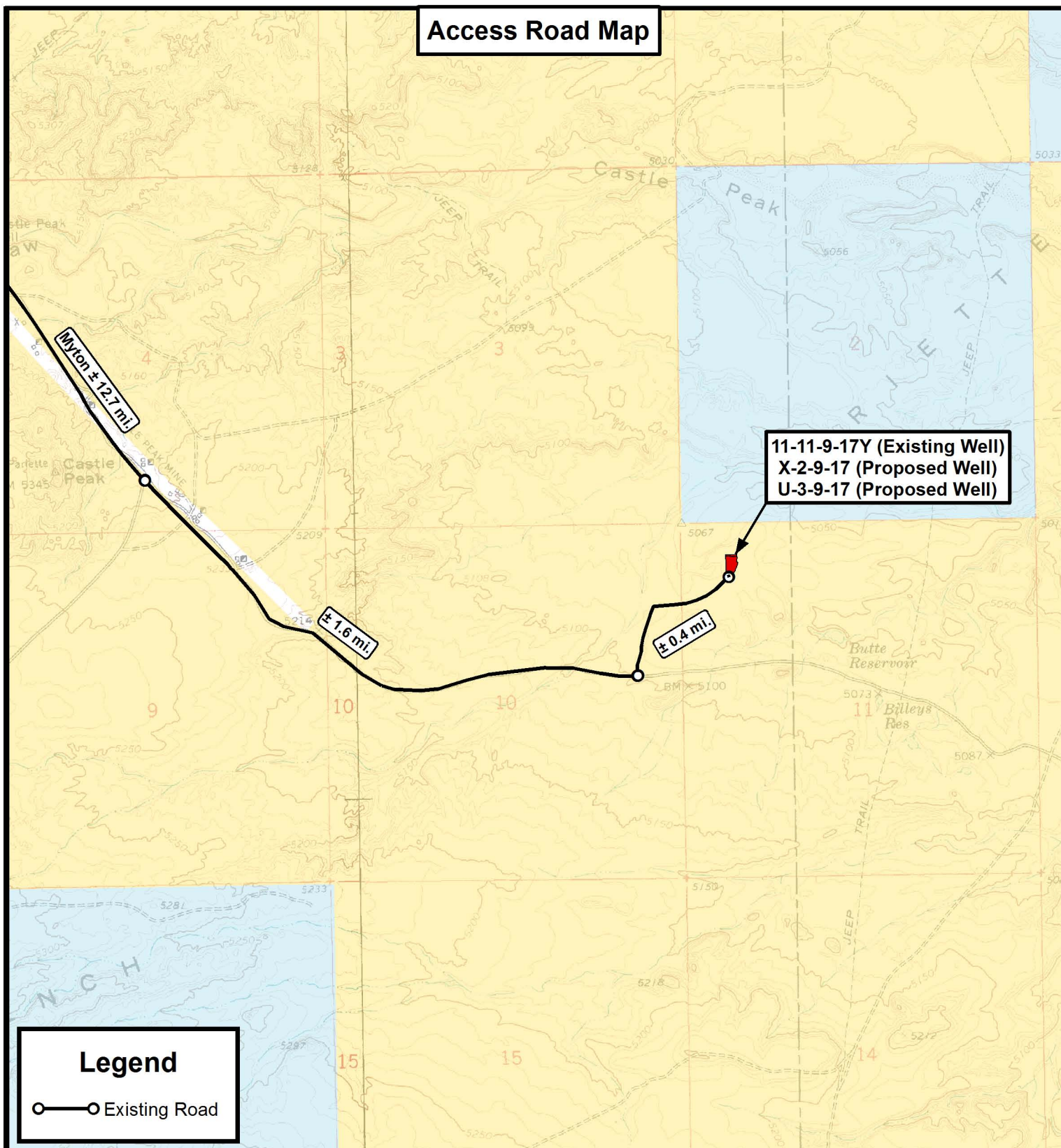
**V3****TOPOGRAPHIC MAP**

SHEET

**A**



## Access Road Map



THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.

**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
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## NEWFIELD EXPLORATION COMPANY

11-11-9-17Y (Existing Well)  
X-2-9-17 (Proposed Well)  
U-3-9-17 (Proposed Well)

SEC. 11, T9S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY: D.C.R. REVISED: 07-12-12 A.P.C. VERSION:

DATE: 07-25-2011

SCALE: 1" = 2,000'

V3

TOPOGRAPHIC MAP

SHEET

B



## Proposed Pipeline Map

Detail

± 36'

Tie in at Existing  
Waterline

11-11-9-17Y (Existing Well)  
X-2-9-17 (Proposed Well)  
U-3-9-17 (Proposed Well)

See "Detail"

Existing  
Gas PipelineExisting  
Flowline

## Legend

- Existing Road  
— Proposed Waterline

## Total Pipeline Distances

Proposed Waterline ± 36'

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SEC. 11, T9S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	D.C.R.	REVISED:	07-12-12 A.P.C.	VERSION:
DATE:	07-25-2011			<b>V3</b>
SCALE:	1" = 2,000'			

**TOPOGRAPHIC MAP**

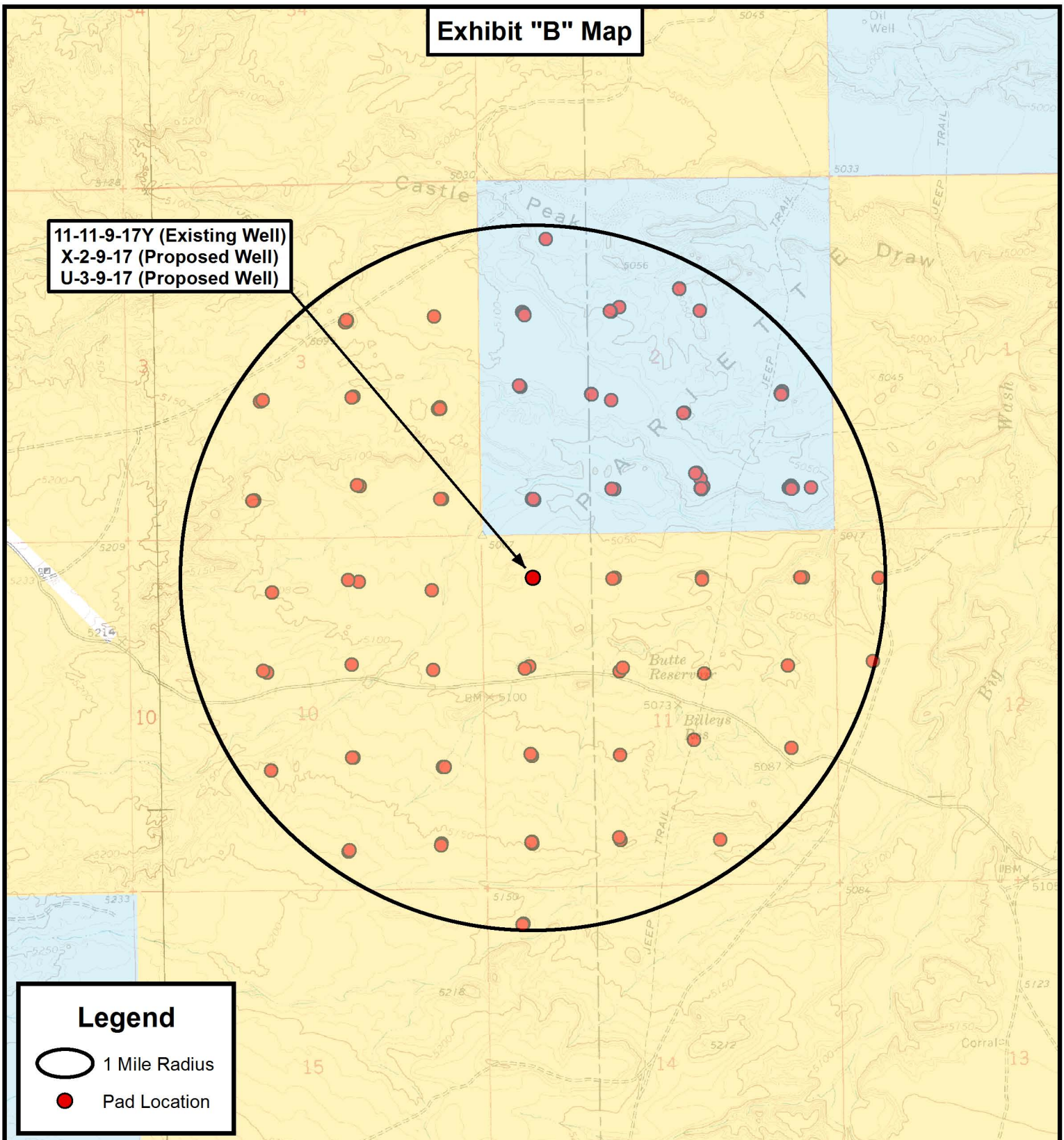
SHEET

**C**



**Exhibit "B" Map**

11-11-9-17Y (Existing Well)  
 X-2-9-17 (Proposed Well)  
 U-3-9-17 (Proposed Well)



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11-11-9-17Y (Existing Well)  
 X-2-9-17 (Proposed Well)  
 U-3-9-17 (Proposed Well)

SEC. 11, T9S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY: D.C.R. REVISED: 07-12-12 A.P.C. VERSION:

DATE: 07-25-2011

SCALE: 1" = 2,000'

**V3**

**TOPOGRAPHIC MAP**

SHEET

**D**



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 11 T9S, R17E  
X-2-9-17**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**09 July, 2012**





## Payzone Directional

## Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well X-2-9-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	X-2-9-17 @ 5099.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	X-2-9-17 @ 5099.0ft (Original Well Elev)
<b>Site:</b>	SECTION 11 T9S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	X-2-9-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

<b>Project</b>	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		

<b>Site</b>	SECTION 11 T9S, R17E			
<b>Site Position:</b>		<b>Northing:</b>	7,188,850.00 ft	<b>Latitude:</b> 40° 2' 42.884 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,067,681.14 ft	<b>Longitude:</b> 109° 58' 25.383 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b> 0.98 °

<b>Well</b>	X-2-9-17, SHL LAT: 40 03 03.38 LONG: -109 58 50.50			
<b>Well Position</b>	<b>+N/-S</b>	2,073.8 ft	<b>Northing:</b>	7,190,890.28 ft
	<b>+E/-W</b>	-1,953.2 ft	<b>Easting:</b>	2,065,692.96 ft
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,099.0 ft
			<b>Ground Level:</b>	5,087.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	7/9/2012	11.14	65.79	52,183

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	44.16

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,445.7	12.69	44.16	1,438.8	66.9	65.0	1.50	1.50	0.00	44.16	
4,993.5	12.69	44.16	4,900.0	625.8	607.7	0.00	0.00	0.00	0.00	X-2-9-17 TGT
6,192.8	12.69	44.16	6,070.0	814.8	791.1	0.00	0.00	0.00	0.00	





## Payzone Directional

## Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well X-2-9-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	X-2-9-17 @ 5099.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	X-2-9-17 @ 5099.0ft (Original Well Elev)
<b>Site:</b>	SECTION 11 T9S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	X-2-9-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	44.16	700.0	0.9	0.9	1.3	1.50	1.50	0.00
800.0	3.00	44.16	799.9	3.8	3.6	5.2	1.50	1.50	0.00
900.0	4.50	44.16	899.7	8.4	8.2	11.8	1.50	1.50	0.00
1,000.0	6.00	44.16	999.3	15.0	14.6	20.9	1.50	1.50	0.00
1,100.0	7.50	44.16	1,098.6	23.4	22.8	32.7	1.50	1.50	0.00
1,200.0	9.00	44.16	1,197.5	33.7	32.8	47.0	1.50	1.50	0.00
1,300.0	10.50	44.16	1,296.1	45.9	44.6	64.0	1.50	1.50	0.00
1,400.0	12.00	44.16	1,394.2	59.9	58.1	83.5	1.50	1.50	0.00
1,445.7	12.69	44.16	1,438.8	66.9	65.0	93.2	1.50	1.50	0.00
1,500.0	12.69	44.16	1,491.8	75.4	73.3	105.2	0.00	0.00	0.00
1,600.0	12.69	44.16	1,589.3	91.2	88.6	127.1	0.00	0.00	0.00
1,700.0	12.69	44.16	1,686.9	107.0	103.9	149.1	0.00	0.00	0.00
1,800.0	12.69	44.16	1,784.5	122.7	119.2	171.0	0.00	0.00	0.00
1,900.0	12.69	44.16	1,882.0	138.5	134.4	193.0	0.00	0.00	0.00
2,000.0	12.69	44.16	1,979.6	154.2	149.7	215.0	0.00	0.00	0.00
2,100.0	12.69	44.16	2,077.1	170.0	165.0	236.9	0.00	0.00	0.00
2,200.0	12.69	44.16	2,174.7	185.7	180.3	258.9	0.00	0.00	0.00
2,300.0	12.69	44.16	2,272.3	201.5	195.6	280.8	0.00	0.00	0.00
2,400.0	12.69	44.16	2,369.8	217.2	210.9	302.8	0.00	0.00	0.00
2,500.0	12.69	44.16	2,467.4	233.0	226.2	324.8	0.00	0.00	0.00
2,600.0	12.69	44.16	2,564.9	248.7	241.5	346.7	0.00	0.00	0.00
2,700.0	12.69	44.16	2,662.5	264.5	256.8	368.7	0.00	0.00	0.00
2,800.0	12.69	44.16	2,760.1	280.3	272.1	390.6	0.00	0.00	0.00
2,900.0	12.69	44.16	2,857.6	296.0	287.4	412.6	0.00	0.00	0.00
3,000.0	12.69	44.16	2,955.2	311.8	302.7	434.6	0.00	0.00	0.00
3,100.0	12.69	44.16	3,052.7	327.5	318.0	456.5	0.00	0.00	0.00
3,200.0	12.69	44.16	3,150.3	343.3	333.3	478.5	0.00	0.00	0.00
3,300.0	12.69	44.16	3,247.8	359.0	348.6	500.4	0.00	0.00	0.00
3,400.0	12.69	44.16	3,345.4	374.8	363.9	522.4	0.00	0.00	0.00
3,500.0	12.69	44.16	3,443.0	390.5	379.2	544.4	0.00	0.00	0.00
3,600.0	12.69	44.16	3,540.5	406.3	394.5	566.3	0.00	0.00	0.00
3,700.0	12.69	44.16	3,638.1	422.0	409.8	588.3	0.00	0.00	0.00
3,800.0	12.69	44.16	3,735.6	437.8	425.1	610.2	0.00	0.00	0.00
3,900.0	12.69	44.16	3,833.2	453.6	440.4	632.2	0.00	0.00	0.00
4,000.0	12.69	44.16	3,930.8	469.3	455.7	654.2	0.00	0.00	0.00
4,100.0	12.69	44.16	4,028.3	485.1	471.0	676.1	0.00	0.00	0.00
4,200.0	12.69	44.16	4,125.9	500.8	486.3	698.1	0.00	0.00	0.00
4,300.0	12.69	44.16	4,223.4	516.6	501.6	720.0	0.00	0.00	0.00
4,400.0	12.69	44.16	4,321.0	532.3	516.9	742.0	0.00	0.00	0.00
4,500.0	12.69	44.16	4,418.6	548.1	532.2	764.0	0.00	0.00	0.00
4,600.0	12.69	44.16	4,516.1	563.8	547.5	785.9	0.00	0.00	0.00
4,700.0	12.69	44.16	4,613.7	579.6	562.8	807.9	0.00	0.00	0.00
4,800.0	12.69	44.16	4,711.2	595.3	578.1	829.8	0.00	0.00	0.00
4,900.0	12.69	44.16	4,808.8	611.1	593.4	851.8	0.00	0.00	0.00
4,993.5	12.69	44.16	4,900.0	625.8	607.7	872.3	0.00	0.00	0.00
5,000.0	12.69	44.16	4,906.4	626.9	608.7	873.7	0.00	0.00	0.00
5,100.0	12.69	44.16	5,003.9	642.6	624.0	895.7	0.00	0.00	0.00



## Payzone Directional

## Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well X-2-9-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	X-2-9-17 @ 5099.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	X-2-9-17 @ 5099.0ft (Original Well Elev)
<b>Site:</b>	SECTION 11 T9S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	X-2-9-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,200.0	12.69	44.16	5,101.5	658.4	639.3	917.7	0.00	0.00	0.00
5,300.0	12.69	44.16	5,199.0	674.1	654.6	939.6	0.00	0.00	0.00
5,400.0	12.69	44.16	5,296.6	689.9	669.9	961.6	0.00	0.00	0.00
5,500.0	12.69	44.16	5,394.1	705.6	685.2	983.5	0.00	0.00	0.00
5,600.0	12.69	44.16	5,491.7	721.4	700.5	1,005.5	0.00	0.00	0.00
5,700.0	12.69	44.16	5,589.3	737.1	715.8	1,027.5	0.00	0.00	0.00
5,800.0	12.69	44.16	5,686.8	752.9	731.1	1,049.4	0.00	0.00	0.00
5,900.0	12.69	44.16	5,784.4	768.6	746.4	1,071.4	0.00	0.00	0.00
6,000.0	12.69	44.16	5,881.9	784.4	761.7	1,093.3	0.00	0.00	0.00
6,100.0	12.69	44.16	5,979.5	800.2	777.0	1,115.3	0.00	0.00	0.00
6,192.8	12.69	44.16	6,070.0	814.8	791.1	1,135.7	0.00	0.00	0.00

API Well Number: 43013517340000



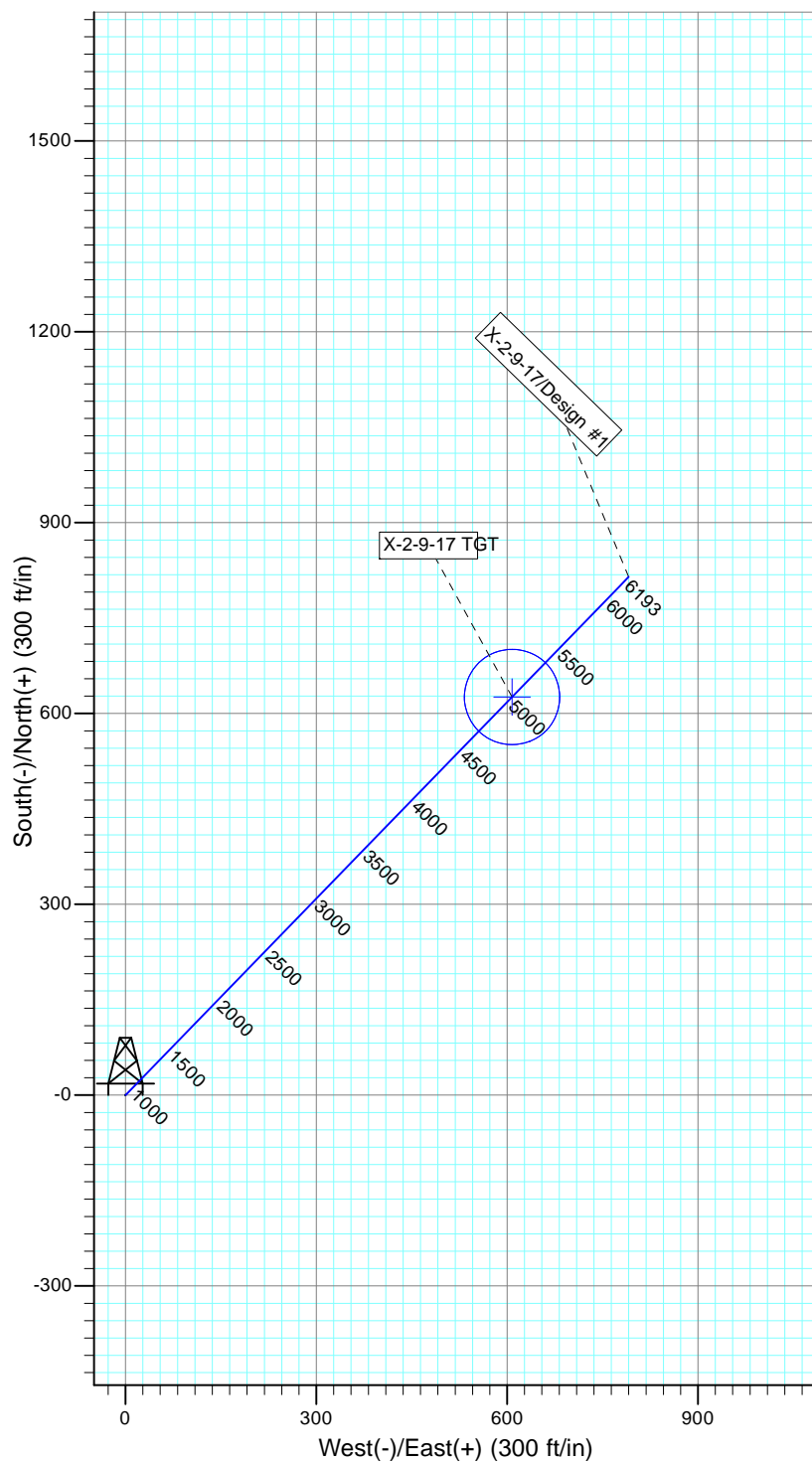
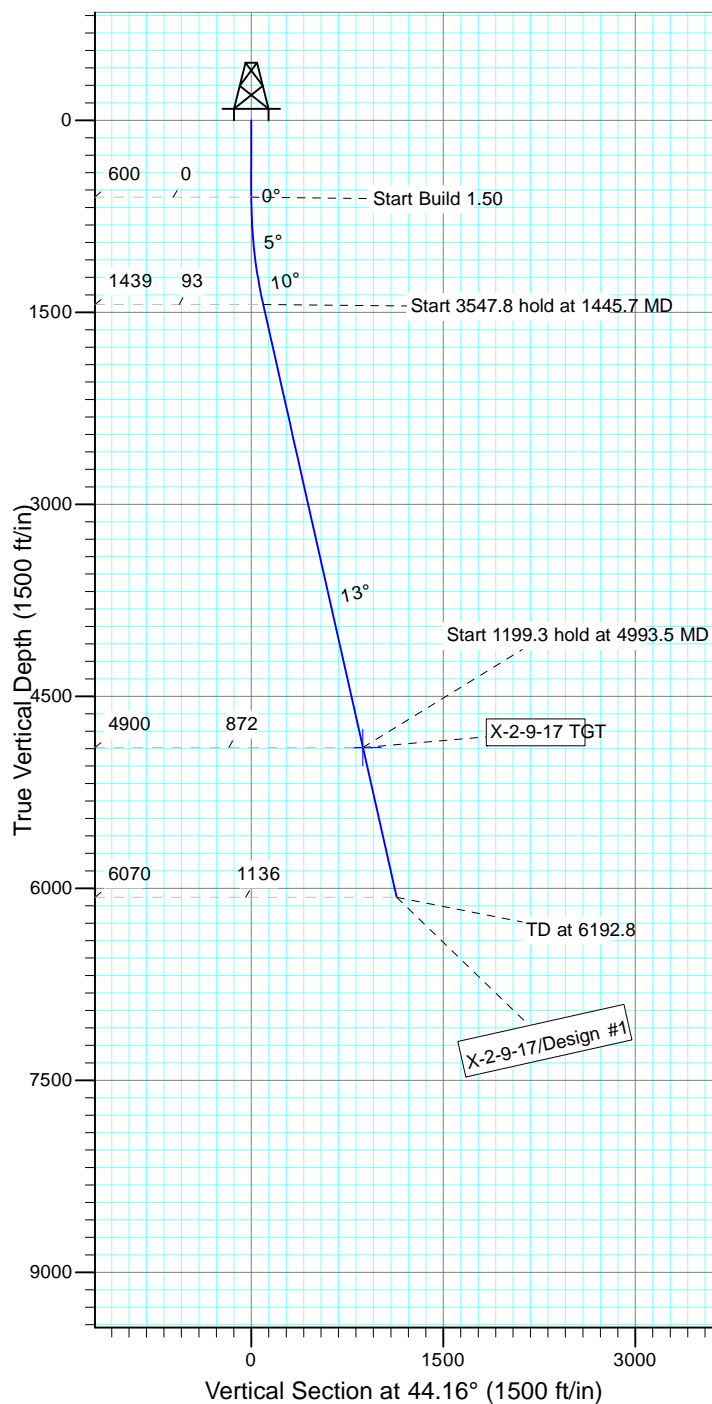
Project: USGS Myton SW (UT)  
 Site: SECTION 11 T9S, R17E  
 Well: X-2-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.14°

Magnetic Field  
 Strength: 52183.0snT  
 Dip Angle: 65.79°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
X-2-9-17 TGT	4900.0	625.8	607.7	Circle (Radius: 75.0)

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1445.7	12.69	44.16	1438.8	66.9	65.0	1.50	44.16	93.2	
4	4993.5	12.69	44.16	4900.0	625.8	607.7	0.00	0.00	872.3	X-2-9-17 TGT
5	6192.8	12.69	44.16	6070.0	814.8	791.1	0.00	0.00	1135.7	



**NEWFIELD PRODUCTION COMPANY  
GMBU X-2-9-17  
AT SURFACE: NW/NW SECTION 11, T9S R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site GMBU X-2-9-17 located in the NW 1/4 NW 1/4 Section 11 T9S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 – 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed in a southeasterly direction – 12.9 miles  $\pm$  to it's junction with an existing road to the northeast; proceed in a northeasterly direction – 0.4 miles  $\pm$  to it's junction with the beginning of the access road to the existing 11-11-9-17Y well location.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal. Any necessary fill material for repair will be purchase and hauled from private sources.

**2. PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing 11-11-9-17Y well pad. See attached **Topographic Map "B"**.

There will be **no** culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation.

5. **LOCATION AND TYPE OF WATER SUPPLY**

Newfield Production will transport water by truck from nearest water source as determined by a Newfield representative for the purpose of drilling the above mentioned well. The available water sources are as follows:

Johnson Water District  
Water Right : 43-10136

Maurice Harvey Pond  
Water Right: 47-1358

Neil Moon Pond  
Water Right: 43-11787

Newfield Collector Well  
Water Right: 47-1817 (A30414DVA, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

8. **ANCILLARY FACILITIES**



There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT**

See attached Location Layout Sheet.

**Fencing Requirements**

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Existing fences to be crossed by the access road will be braced and tied off before cutting so as to prevent slacking in the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BLM specifications.

10. **PLANS FOR RESTORATION OF SURFACE:**

- a) Producing Location

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

- b) Dry Hole Abandoned Location

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP** – Bureau of Land Management.

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. State of Utah Antiquities Project Permit # U-12-MQ-0154bs 3/15/12, prepared by Montgomery Archaeological Consultants. . Paleontological Resource Survey prepared by, Wade Miller, 3/12/12. See attached report cover pages, Exhibit "D".

### **Water Disposal**

After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project. Water not meeting quality criteria, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.

### **Additional Surface Stipulations**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

### **Details of the On-Site Inspection**

The proposed GMBU X-2-9-17 was on-sited on 7/10/12. The following were present; Corie Miller (Newfield Production) and Janna Simonsen (Bureau of Land Management).

### **Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the GMBU X-2-9-17, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU X-2-9-17, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

13. **LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:**  
**Representative**

Name: Corie Miller  
Address: Newfield Production Company  
Route 3, Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

### **Certification**

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #X-2-9-17, Section 11, Township 9S, Range 17E: Lease UTU-79013 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

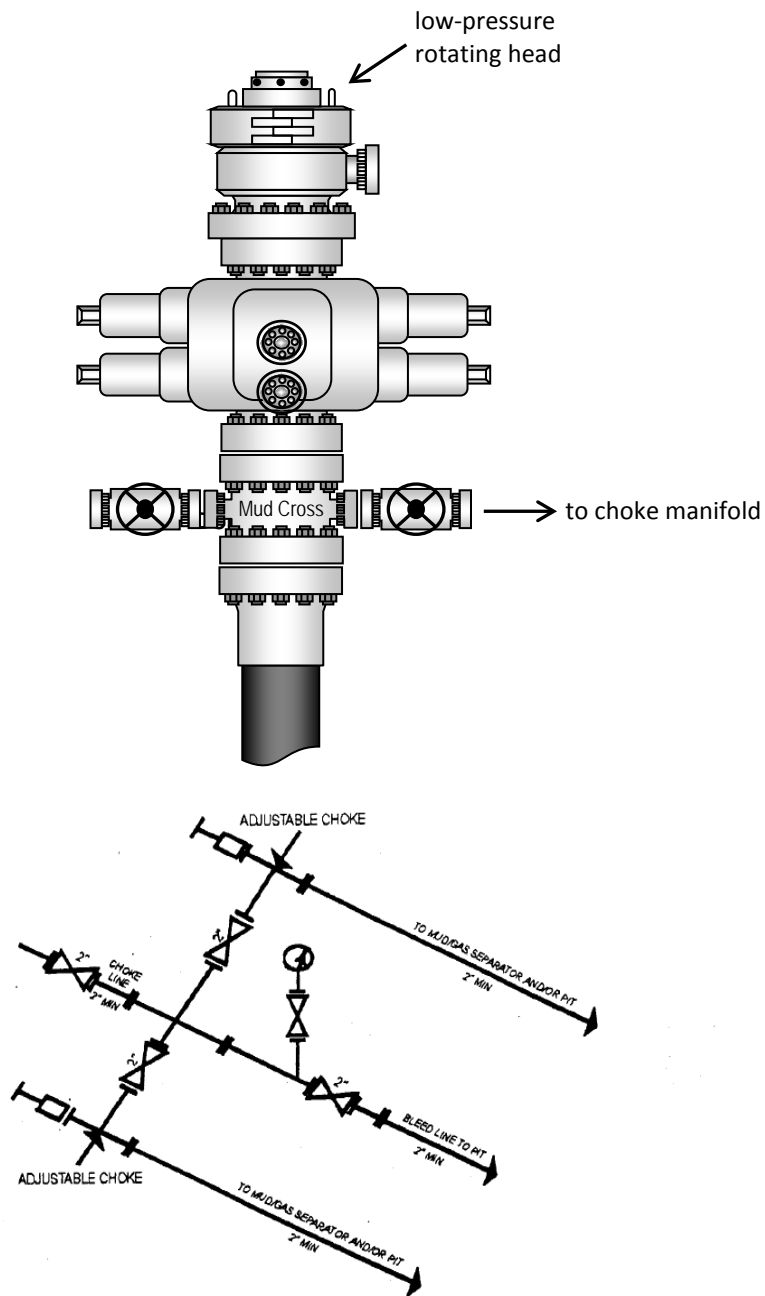
API Well Number: 43013517340000

9/20/12  
Date

\_\_\_\_\_  
Mandie Crozier  
Regulatory Analyst  
Newfield Production Company

RECEIVED: September 21, 2012

## Typical 2M BOP stack configuration



2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

# NEWFIELD EXPLORATION COMPANY

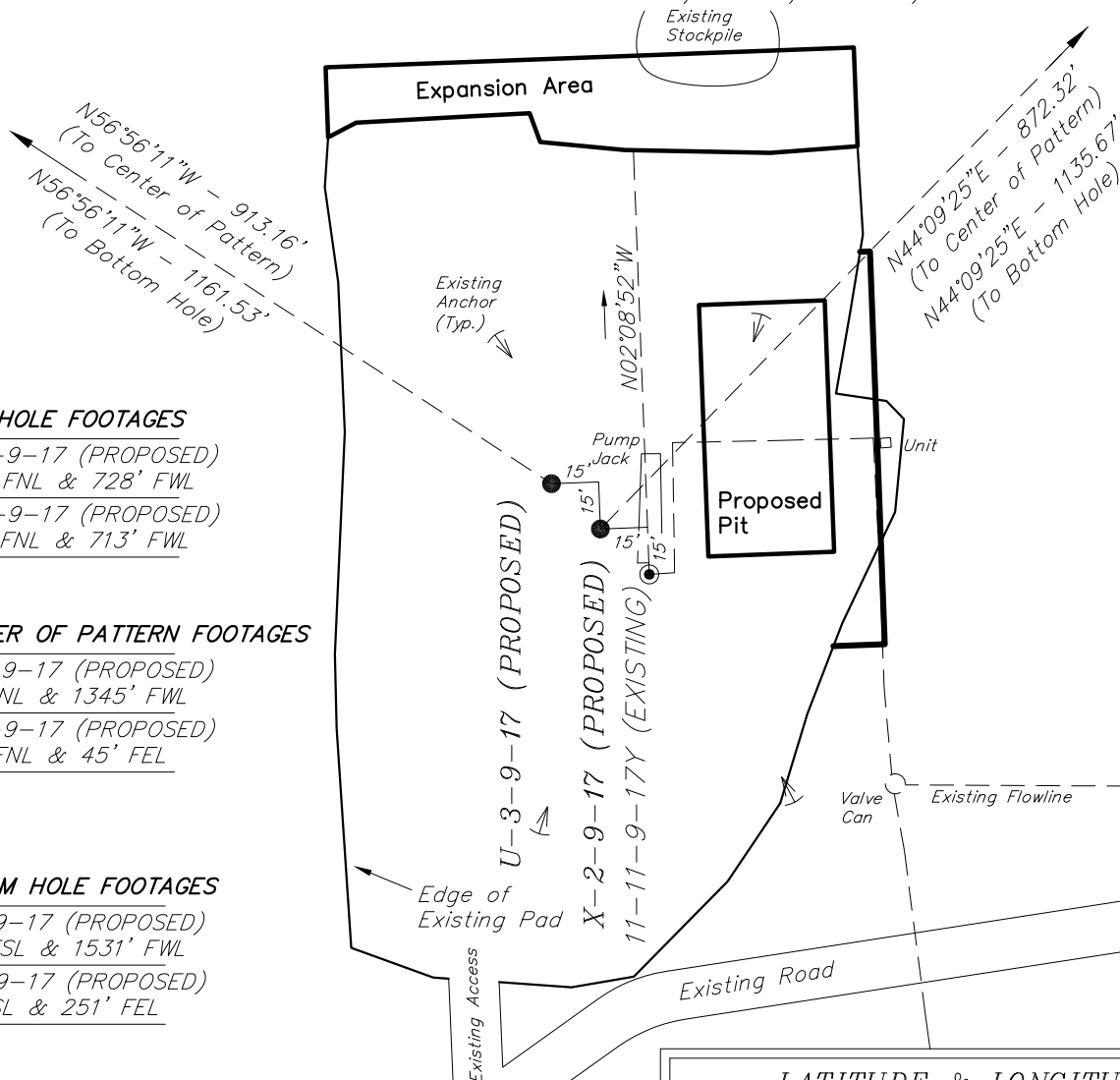
## WELL PAD INTERFERENCE PLAT

11-11-9-17Y (Existing Well)

X-2-9-17 (Proposed Well)

U-3-9-17 (Proposed Well)

Pad Location: NWNW Section 11, T9S, R17E, S.L.B.&M.



### TOP HOLE FOOTAGES

X-2-9-17 (PROPOSED)  
636' FNL & 728' FWL

U-3-9-17 (PROPOSED)  
621' FNL & 713' FWL

### CENTER OF PATTERN FOOTAGES

X-2-9-17 (PROPOSED)  
20' FNL & 1345' FWL

U-3-9-17 (PROPOSED)  
110' FNL & 45' FEL

### BOTTOM HOLE FOOTAGES

X-2-9-17 (PROPOSED)  
166' FSL & 1531' FWL

U-3-9-17 (PROPOSED)  
28' FSL & 251' FEL

### RELATIVE COORDINATES From Top Hole to C.O.P.

WELL	NORTH	EAST
X-2-9-17	626'	608'
U-3-9-17	498'	-765'

### RELATIVE COORDINATES From Top Hole to Bottom Hole

WELL	NORTH	EAST
X-2-9-17	815'	791'
U-3-9-17	634'	-973'

#### Note:

Bearings are based on GPS Observations.

### LATITUDE & LONGITUDE Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
11-11-9-17Y	40° 03' 03.24"	109° 58' 50.30"
X-2-9-17	40° 03' 03.38"	109° 58' 50.50"
U-3-9-17	40° 03' 03.53"	109° 58' 50.70"

### LATITUDE & LONGITUDE Bottom Hole Position (NAD 83)

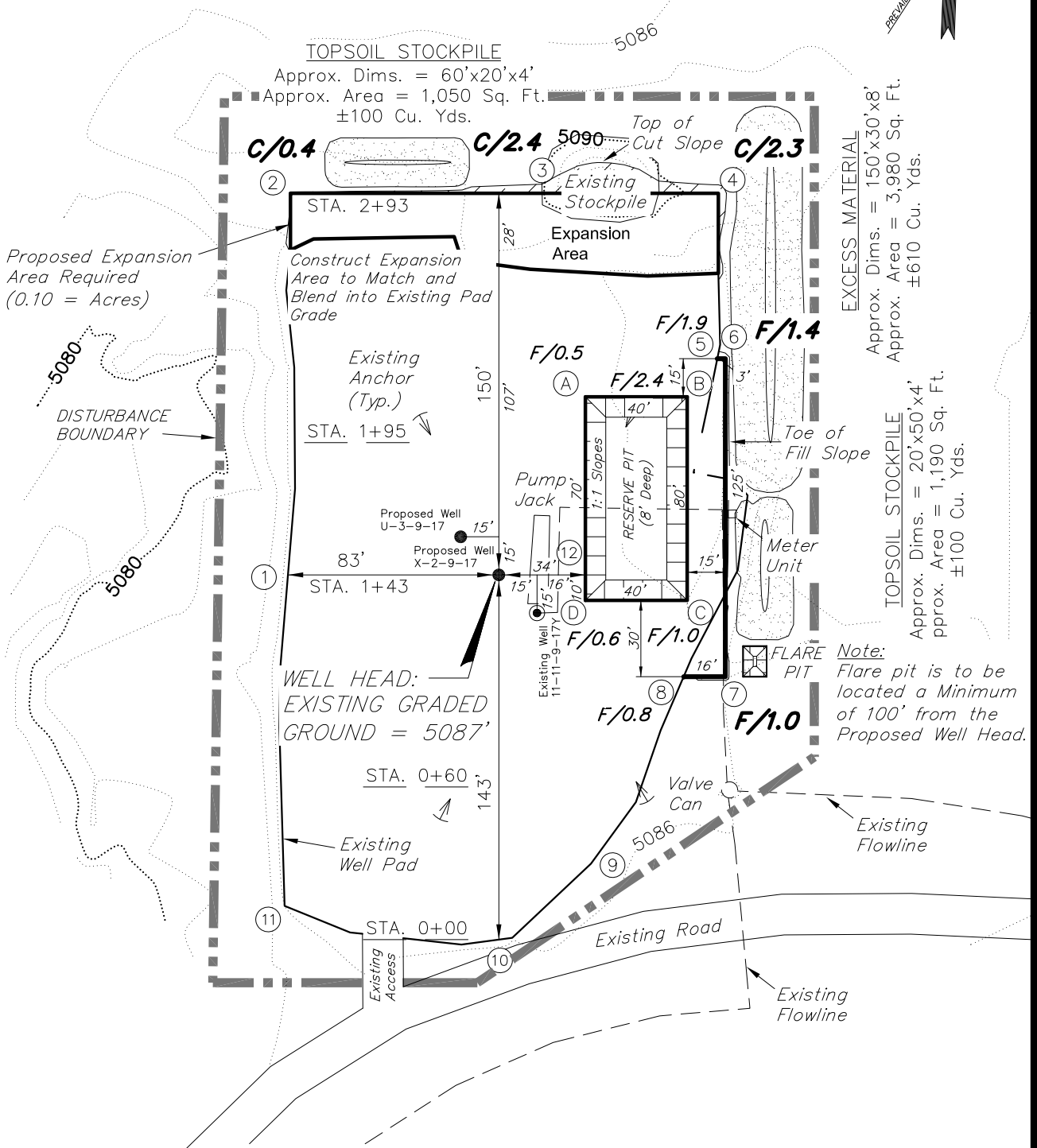
WELL	LATITUDE	LONGITUDE
X-2-9-17	40° 03' 11.30"	109° 58' 40.15"
U-3-9-17	40° 03' 09.95"	109° 59' 03.07"

SURVEYED BY: S.H.	DATE SURVEYED: 06-29-11	VERSION:
DRAWN BY: M.W.	DATE DRAWN: 07-21-11	V3
SCALE: 1" = 60'	REVISED: F.T.M. 07-12-12	

**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

RECEIVED: September 21, 2012



**NEWFIELD EXPLORATION COMPANY****LOCATION LAYOUT****11-11-9-17Y (Existing Well)****X-2-9-17 (Proposed Well)****U-3-9-17 (Proposed Well)***Pad Location: NWNW Section 11, T9S, R17E, S.L.B.&M.***NOTE:**

The topsoil & excess material areas are calculated as being mounds containing 810 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

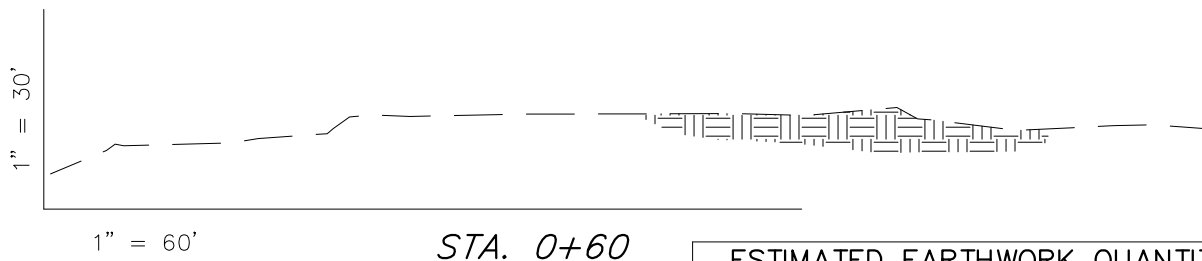
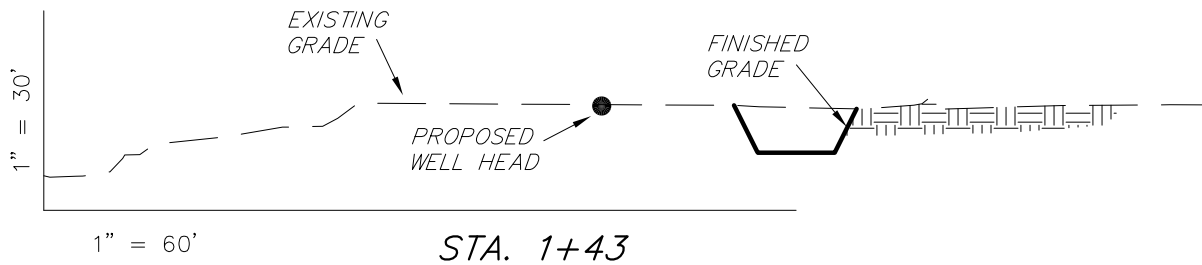
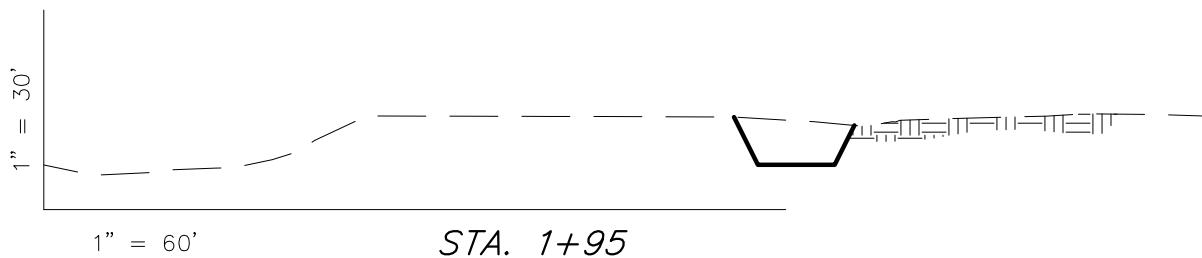
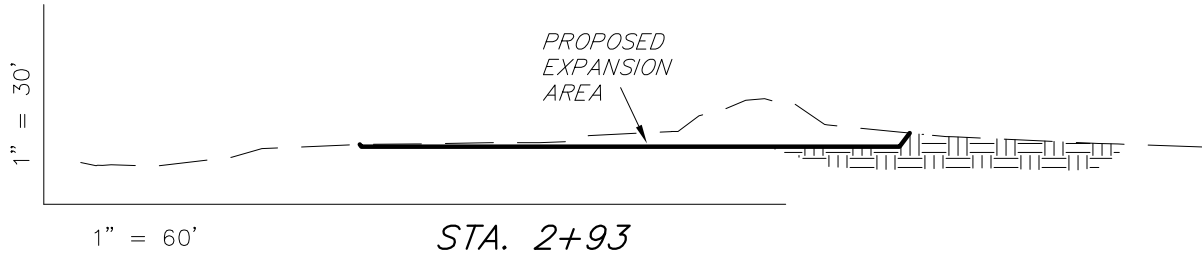
**Note:**

Topsoil to be Stripped From All New Construction Areas and Proposed Stock Pile Locations

SURVEYED BY: S.H.	DATE SURVEYED: 05-25-11	VERSION:
DRAWN BY: M.W.	DATE DRAWN: 07-20-11	V3
SCALE: 1" = 60'	REVISED: F.T.M. 07-12-12	

**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

**RECEIVED: September 21, 2012**

***NEWFIELD EXPLORATION COMPANY******CROSS SECTIONS******11-11-9-17Y (Existing Well)******X-2-9-17 (Proposed Well)******U-3-9-17 (Proposed Well)******Pad Location: NWNW Section 11, T9S, R17E, S.L.B.&M.***

NOTE:  
UNLESS OTHERWISE  
NOTED ALL CUT/FILL  
SLOPES ARE AT 1.5:1

**ESTIMATED EARTHWORK QUANTITIES**  
(No Shrink or swell adjustments have been used)  
(Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	50	190	Topsoil is not included in Pad Cut	-140
PIT	690	0		690
TOTALS	740	190	180	550

SURVEYED BY: S.H.	DATE SURVEYED: 05-25-11	VERSION:
DRAWN BY: M.W.	DATE DRAWN: 07-20-11	V3
SCALE: 1" = 60'	REVISED: F.T.M. 07-12-12	

**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
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RECEIVED: September 21, 2012

# NEWFIELD EXPLORATION COMPANY

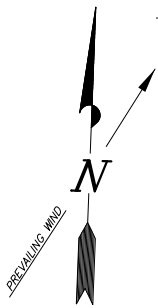
## TYPICAL RIG LAYOUT

11-11-9-17Y (Existing Well)

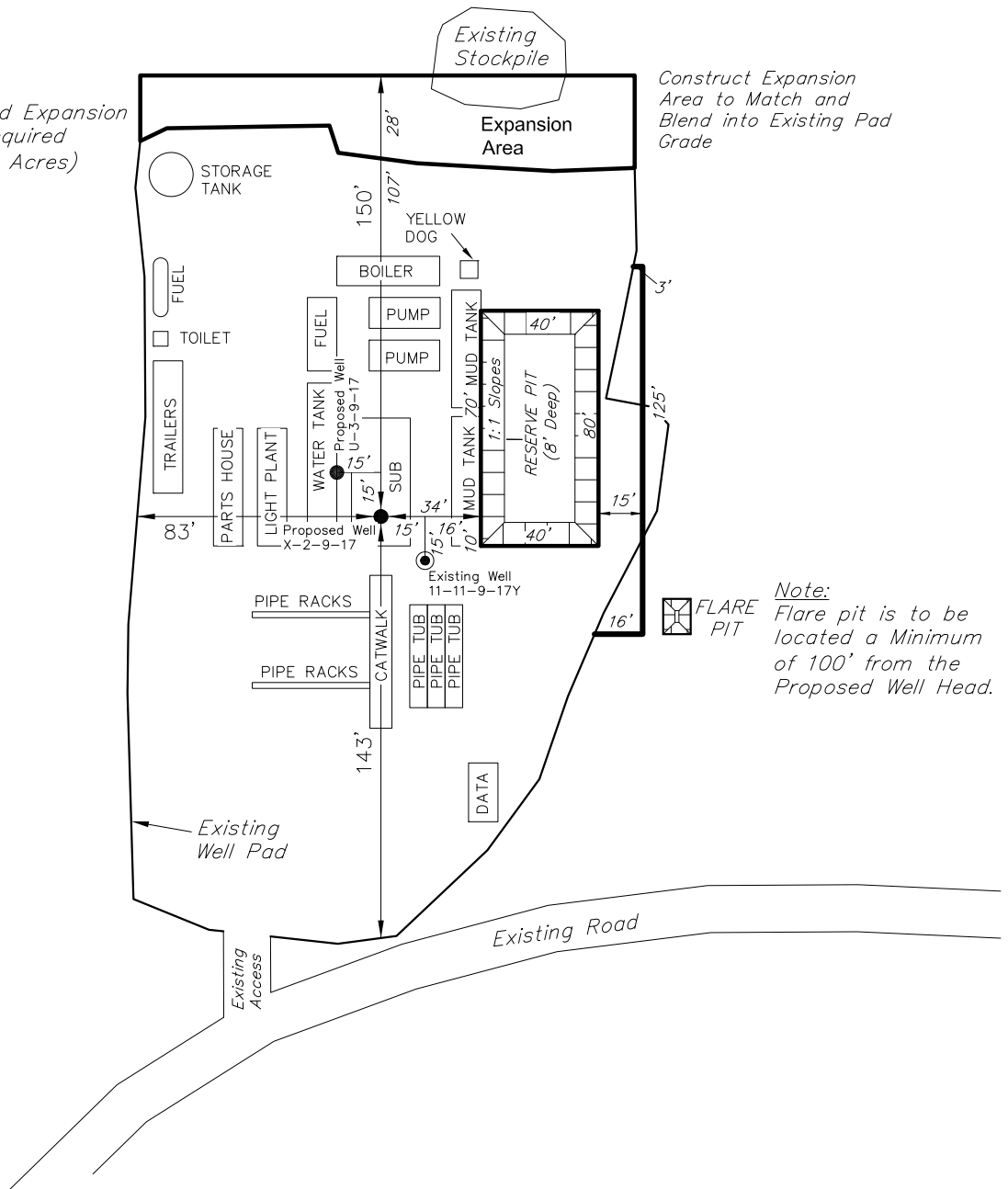
X-2-9-17 (Proposed Well)

U-3-9-17 (Proposed Well)

Pad Location: NWNW Section 11, T9S, R17E, S.L.B.&M.



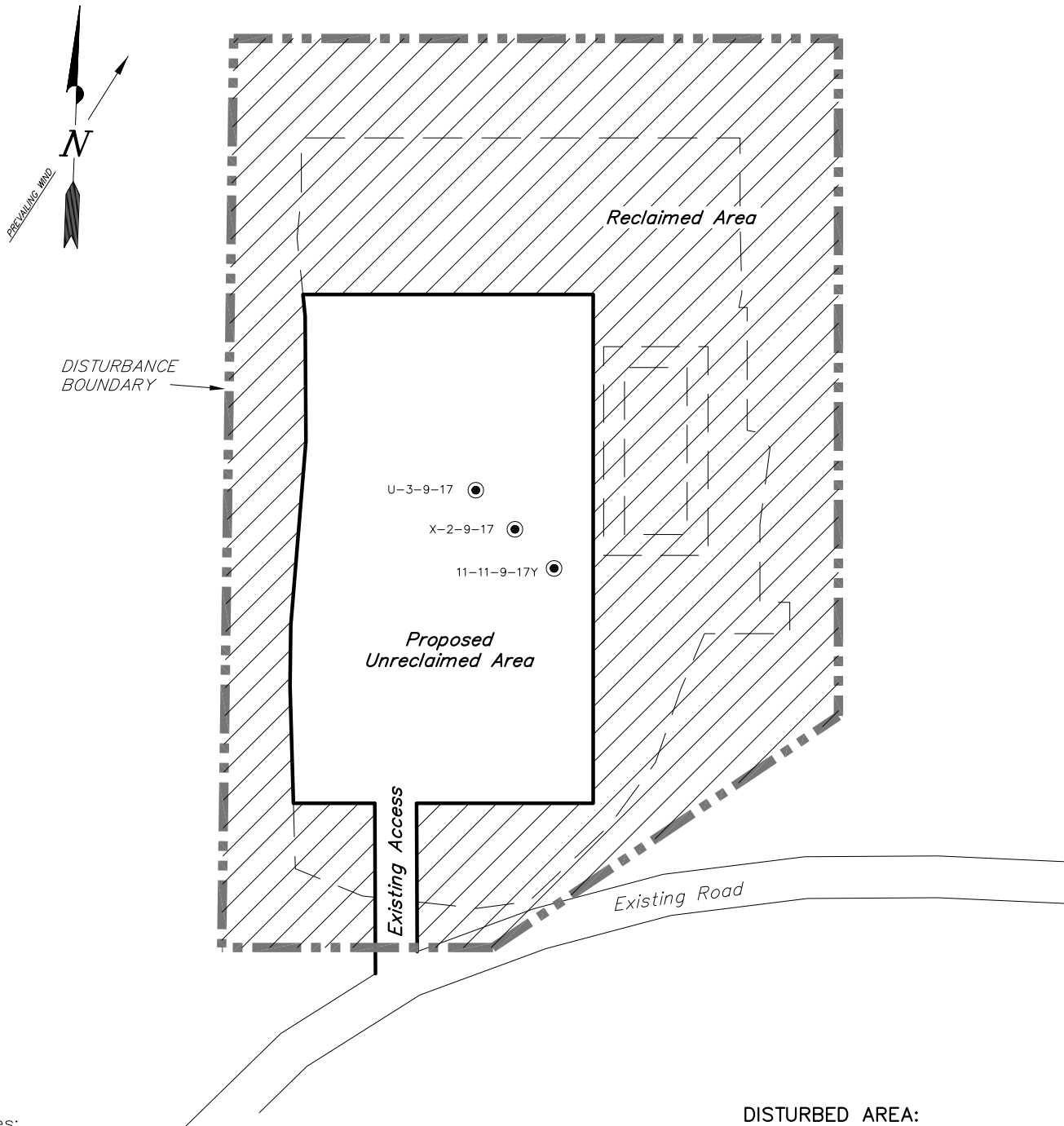
Proposed Expansion  
Area Required  
(0.10 = Acres)



SURVEYED BY: S.H.	DATE SURVEYED: 05-25-11	VERSION:
DRAWN BY: M.W.	DATE DRAWN: 07-20-11	V3
SCALE: 1" = 60'	REVISED: F.T.M. 07-12-12	

**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
(435) 781-2501

RECEIVED: September 21, 2012

**NEWFIELD EXPLORATION COMPANY****RECLAMATION LAYOUT****11-11-9-17Y (Existing Well)****X-2-9-17 (Proposed Well)****U-3-9-17 (Proposed Well)***Pad Location: NWNW Section 11, T9S, R17E, S.L.B.&M.*

## Notes:

1. Reclaimed Area to Include Seeding of Approved Vegetation and Sufficient Storm Water Management System.
2. Actual Equipment Layout and Reclaimed Pad Surface Area May Change due to Production Requirements or Site Conditions.

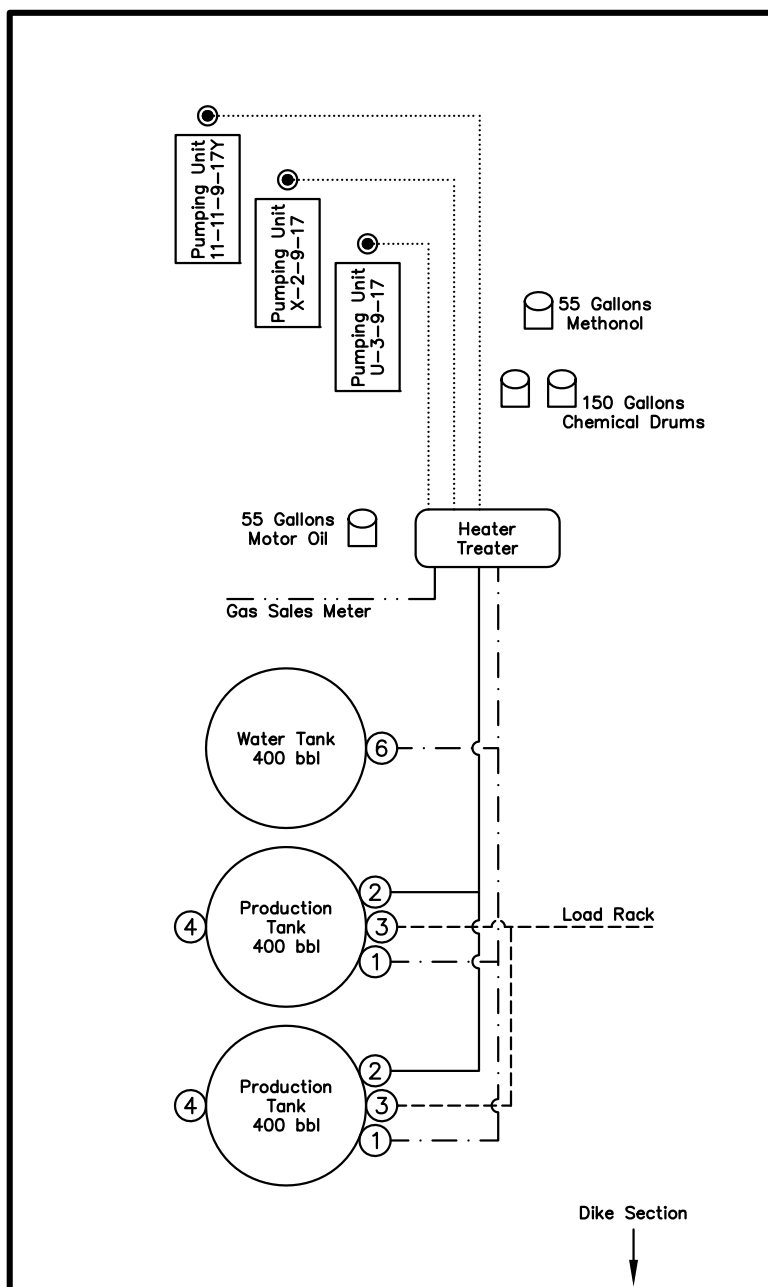
DISTURBED AREA:

TOTAL DISTURBED AREA = 1.74 ACRES  
 TOTAL RECLAIMED AREA = 1.21 ACRES  
 UNRECLAIMED AREA = 0.53 ACRES

SURVEYED BY: S.H.	DATE SURVEYED: 06-29-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 07-12-12	V3
SCALE: 1" = 60'	REVISED:	

**Tri State** (435) 781-2501  
*Land Surveying, Inc.*  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

RECEIVED: September 21, 2012

**NEWFIELD EXPLORATION COMPANY***PROPOSED SITE FACILITY DIAGRAM***11-11-9-17Y (Existing Well) UTU-79013****X-2-9-17 (Proposed Well) ML-45555****U-3-9-17 (Proposed Well) UTU-75037***Pad Location: NWNW Section 11, T9S, R17E, S.L.B.&M.  
Duchesne County, Utah****Legend***

Emulsion Line .....  
 Load Rack -----  
 Water Line - - - - -  
 Gas Sales - . . . . .  
 Oil Line \_\_\_\_\_

NOT TO SCALE

SURVEYED BY: S.H.	DATE SURVEYED: 06-29-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 07-12-12	V3
SCALE: NONE	REVISED:	

**Tri State** (435) 781-2501  
*Land Surveying, Inc.*  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

RECEIVED: September 21, 2012



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

September 24, 2012

### Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2012 Plan of Development Greater Monument  
Butte Unit, Duchesne and Uintah Counties,  
Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2012 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-047-53154	GMBU V-11-9-17	Sec 11 T09S R17E 0630 FSL 1766 FEL BHL Sec 11 T09S R17E 0006 FSL 1062 FEL
43-047-53155	GMBU L-31-8-18	Sec 31 T08S R18E 2005 FNL 0864 FEL BHL Sec 31 T08S R18E 2136 FSL 1720 FEL
43-047-53156	GMBU M-11-9-17	Sec 11 T09S R17E 2107 FNL 1967 FEL BHL Sec 11 T09S R17E 2444 FSL 2554 FWL
43-047-53157	GMBU L-11-9-17	Sec 11 T09S R17E 2124 FNL 1954 FEL BHL Sec 11 T09S R17E 2581 FSL 1107 FEL
43-047-53158	GMBU H-6-9-18	Sec 06 T09S R18E 1932 FNL 1893 FWL BHL Sec 06 T09S R18E 1274 FNL 2499 FEL
43-047-53159	GMBU M-12-9-17	Sec 12 T09S R17E 2041 FNL 2223 FWL BHL Sec 12 T09S R17E 2477 FSL 2397 FEL
43-047-53160	GMBU H-12-9-17	Sec 12 T09S R17E 2028 FNL 2207 FWL BHL Sec 12 T09S R17E 0950 FNL 2505 FEL
43-047-53161	GMBU G-6-9-18	Sec 06 T09S R18E 2030 FNL 0731 FWL BHL Sec 06 T09S R18E 1071 FNL 1336 FWL

RECEIVED: September 26, 2012

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-047-53162	GMBU H-11-9-17	Sec 11 T09S R17E 0710 FNL 1993 FWL BHL Sec 11 T09S R17E 1542 FNL 2456 FEL
43-047-53163	GMBU G-11-9-17	Sec 11 T09S R17E 0692 FNL 1983 FWL BHL Sec 11 T09S R17E 1553 FNL 1192 FWL
43-013-51731	GMBU F-2-9-17	Sec 03 T09S R17E 1981 FNL 0673 FEL BHL Sec 02 T09S R17E 1181 FNL 0390 FEL
43-047-53164	GMBU A-14-9-17	Sec 12 T09S R17E 0664 FSL 0390 FWL BHL Sec 14 T09S R17E 0095 FNL 0234 FEL
43-047-53165	GMBU S-1-9-17	Sec 01 T09S R17E 0700 FSL 0643 FEL BHL Sec 01 T09S R17E 1211 FSL 1428 FEL
43-047-53166	GMBU E-7-9-18	Sec 01 T09S R17E 0681 FSL 0652 FEL BHL Sec 07 T09S R18E 0177 FNL 0169 FWL
43-047-53167	GMBU R-6-9-18	Sec 06 T09S R18E 0676 FSL 1969 FWL BHL Sec 06 T09S R18E 1470 FSL 2419 FEL
43-047-53168	GMBU D-7-9-18	Sec 06 T09S R18E 0692 FSL 1956 FWL BHL Sec 07 T09S R18E 0120 FNL 1159 FWL
43-047-53169	GMBU C-14-9-17	Sec 11 T09S R17E 0645 FSL 1781 FEL BHL Sec 14 T09S R17E 0162 FNL 2429 FWL
43-013-51732	GMBU S-3-9-17	Sec 03 T09S R17E 0560 FSL 0639 FEL BHL Sec 03 T09S R17E 1470 FSL 1328 FEL
43-013-51733	GMBU B-10-9-17	Sec 03 T09S R17E 0555 FSL 0618 FEL BHL Sec 10 T09S R17E 0262 FNL 1380 FEL
43-047-53170	GMBU Q-12-9-17	Sec 12 T09S R17E 0660 FSL 0411 FWL BHL Sec 12 T09S R17E 1382 FSL 1557 FWL
43-047-53171	GMBU M-6-9-18	Sec 06 T09S R18E 1852 FSL 2029 FWL BHL Sec 06 T09S R18E 2479 FNL 2368 FEL
43-047-53172	GMBU Q-6-9-18	Sec 06 T09S R18E 1857 FSL 2008 FWL BHL Sec 06 T09S R18E 1121 FSL 1160 FWL
43-047-53173	GMBU N-1-9-17	Sec 01 T09S R17E 1930 FSL 2023 FWL BHL Sec 01 T09S R17E 2391 FNL 1107 FWL
43-047-53174	GMBU Q-1-9-17	Sec 01 T09S R17E 1928 FSL 2044 FWL BHL Sec 01 T09S R17E 1192 FSL 1076 FWL
43-047-53175	GMBU N-6-9-18	Sec 06 T09S R18E 1944 FSL 0645 FWL BHL Sec 06 T09S R18E 2461 FNL 1584 FWL

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-047-53176	GMBU T-1-9-17	Sec 06 T09S R18E 1960 FSL 0630 FWL BHL Sec 01 T09S R17E 1067 FSL 0348 FEL
43-013-51734	GMBU X-2-9-17	Sec 11 T09S R17E 0636 FNL 0728 FWL BHL Sec 02 T09S R17E 0166 FSL 1531 FWL
43-013-51735	GMBU U-3-9-17	Sec 11 T09S R17E 0621 FNL 0713 FWL BHL Sec 03 T09S R17E 0028 FSL 0251 FEL

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard  
DN: cn=Michael L. Coulthard, o=Bureau of Land  
Management, ou=Branch of Minerals,  
email=Michael\_Coulthard@blm.gov, c=US  
Date: 2012.09.24 11:12:25 -06'00'

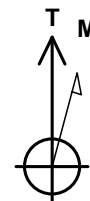
bcc: File - Greater Monument Butte Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:9-24-12

RECEIVED: September 26, 2012

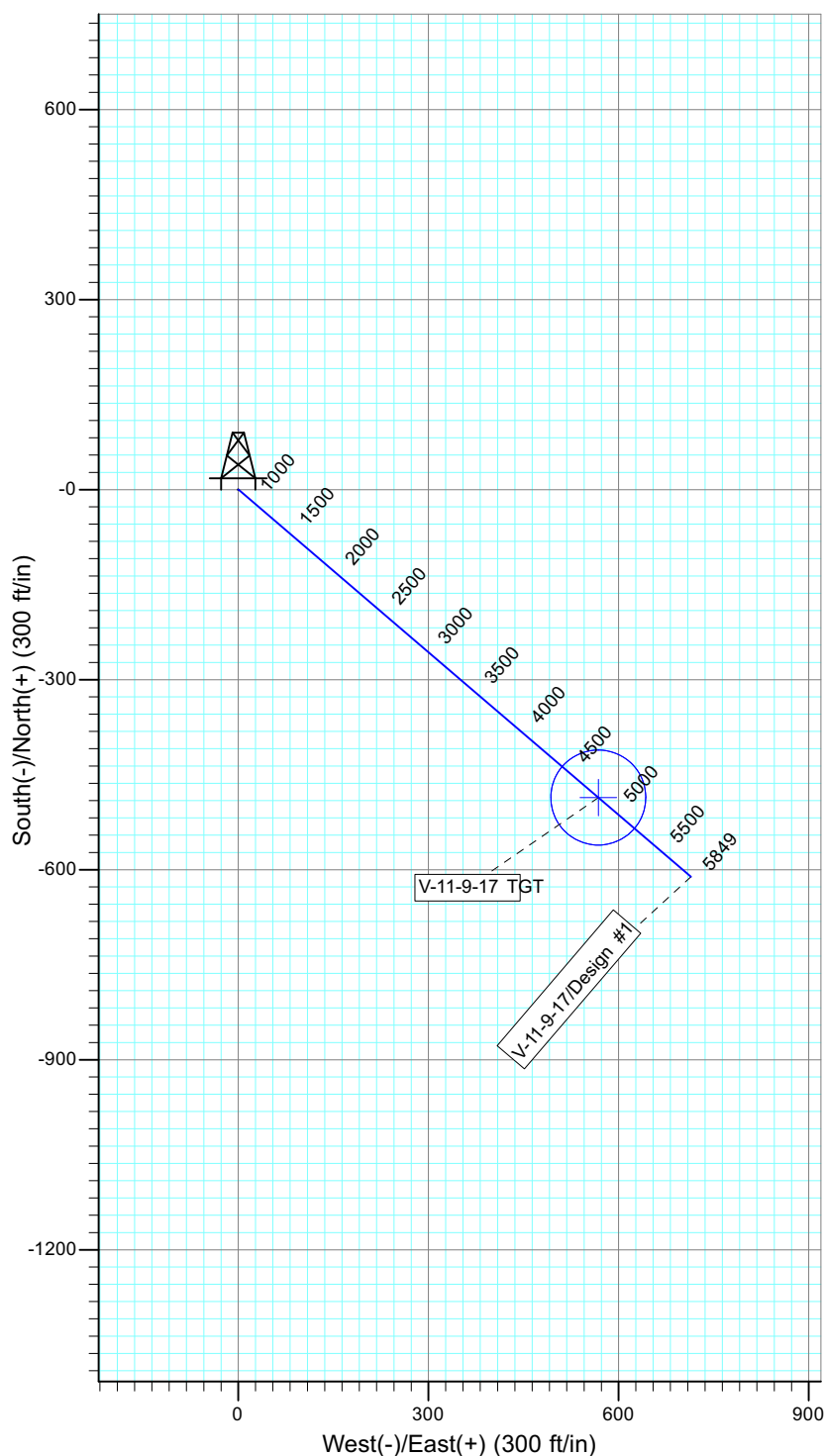
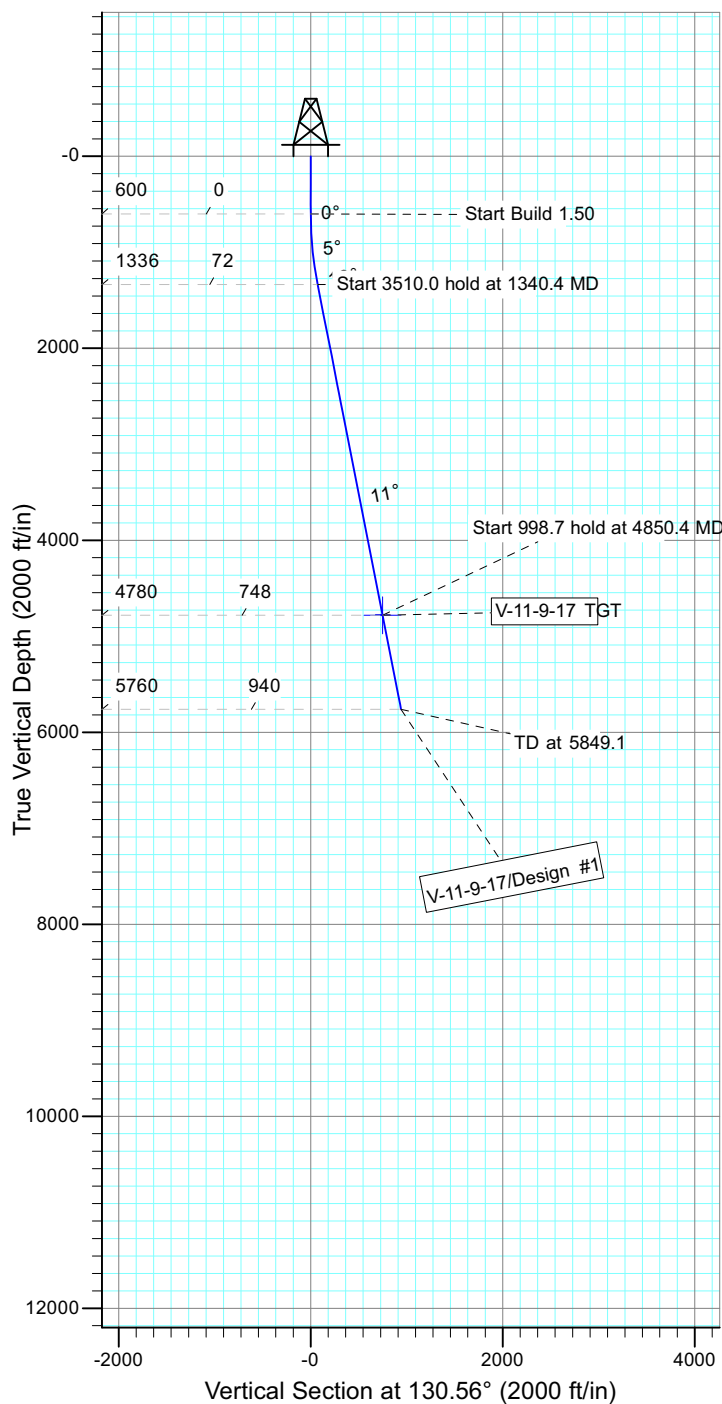


Project: USGS Myton SW (UT)  
 Site: SECTION 11 T9S, R17E  
 Well: V-11-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.14°

Magnetic Field  
 Strength: 52178.3snT  
 Dip Angle: 65.78°  
 Date: 7/9/2012  
 Model: IGRF2010



## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
V-11-9-17 TGT	4780.0	-486.1	568.0	Circle (Radius: 75.0)

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1340.4	11.11	130.56	1335.7	-46.5	54.3	1.50	130.56	71.5	
4	4850.4	11.11	130.56	4780.0	-486.1	568.0	0.00	0.00	747.6	V-11-9-17 TGT
5	5849.1	11.11	130.56	5760.0	-611.2	714.1	0.00	0.00	940.0	



Received: September 21, 2012

API Well Number: 43013517340000



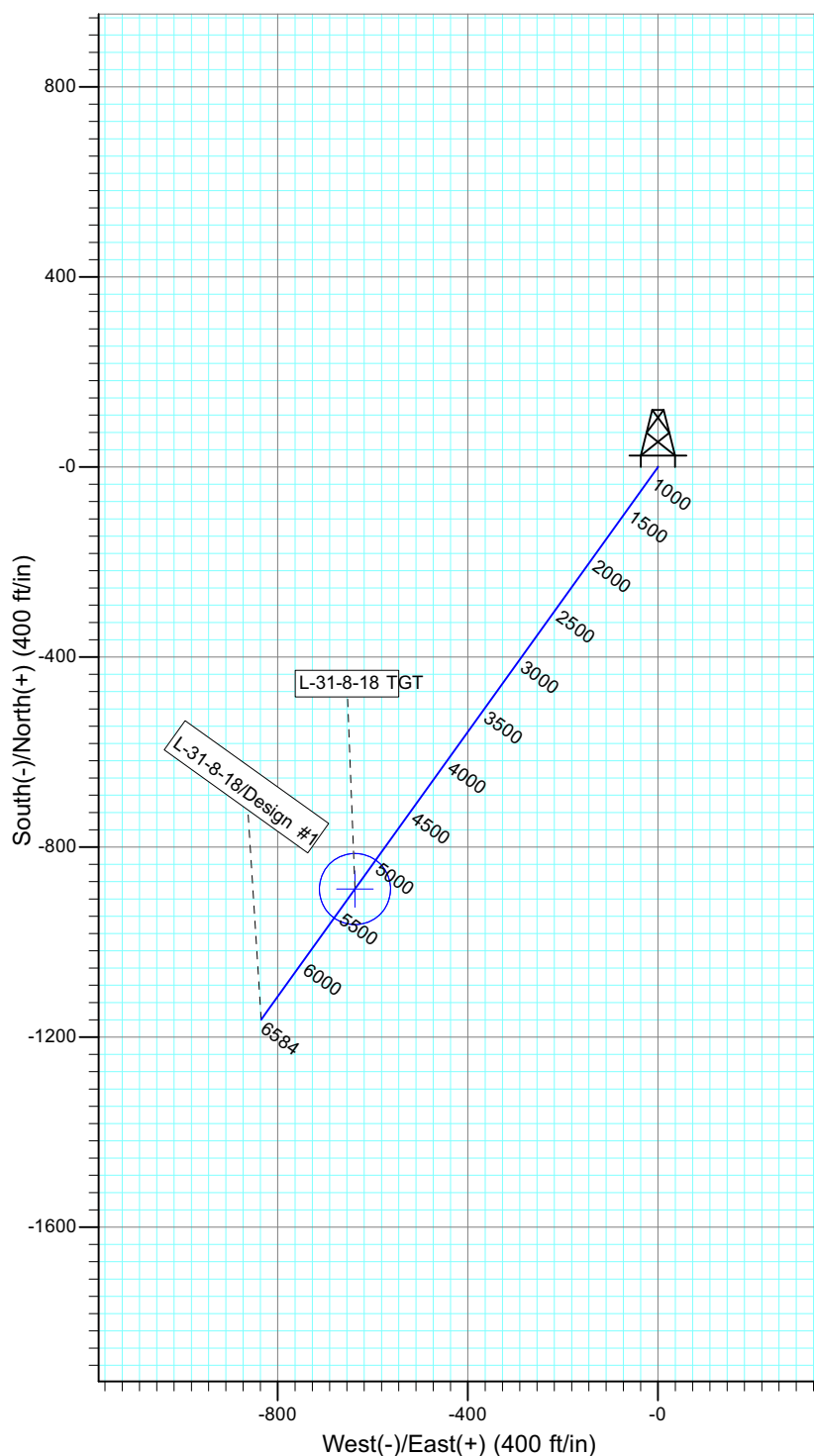
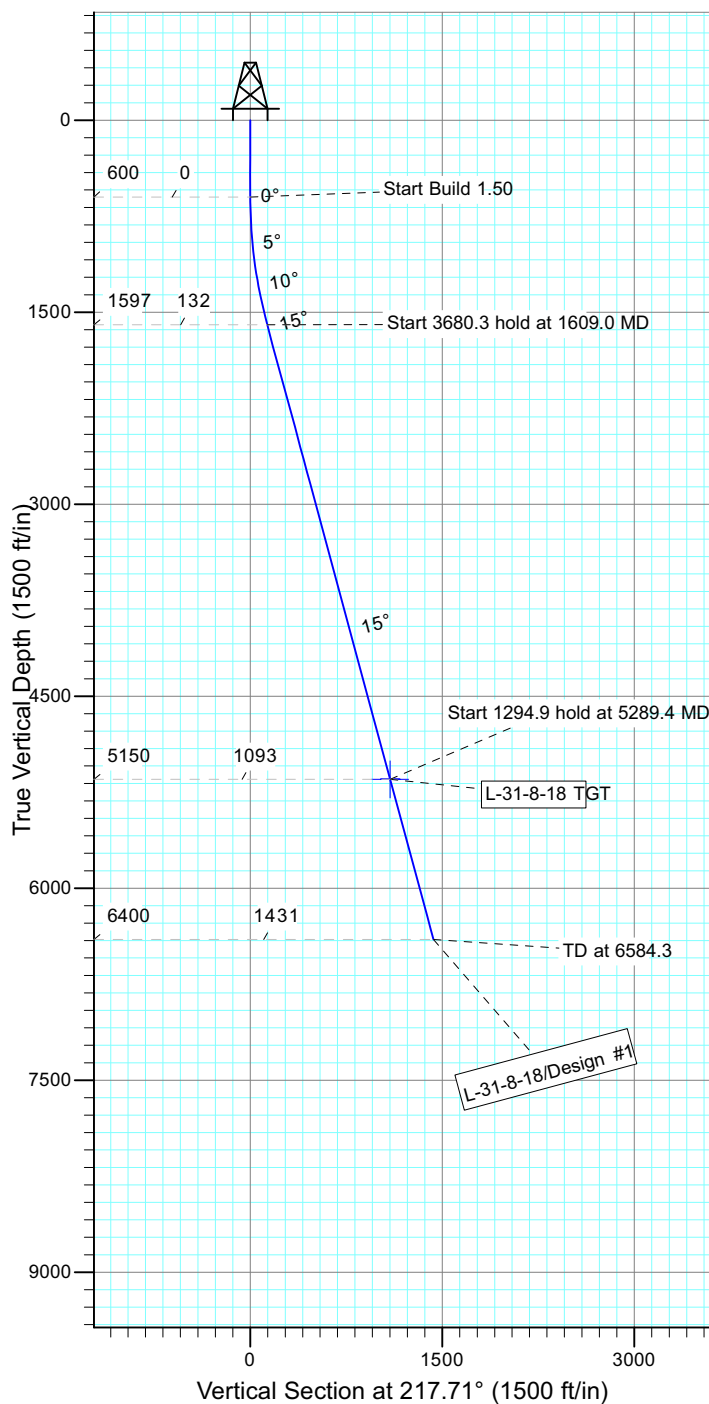
Project: USGS Myton SW (UT)  
 Site: SECTION 31 T8S, R18E  
 Well: L-31-8-18  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.24°

Magnetic Field  
 Strength: 52293.2snT  
 Dip Angle: 65.84°  
 Date: 8/16/2011  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100  
 TARGET RADIUS IS 75'



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
L-31-8-18 TGT	5150.0	-888.3	-637.6	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1609.0	15.14	215.67	1597.3	-107.6	-77.3	1.50	215.67	132.4	
4	5289.4	15.14	215.67	5150.0	-888.3	-637.6	0.00	0.00	1092.7	L-31-8-18 TGT
5	6584.3	15.14	215.67	6400.0	-1163.0	-834.7	0.00	0.00	1430.6	

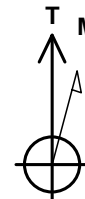


Received: September 20, 2012

API Well Number: 43013517340000



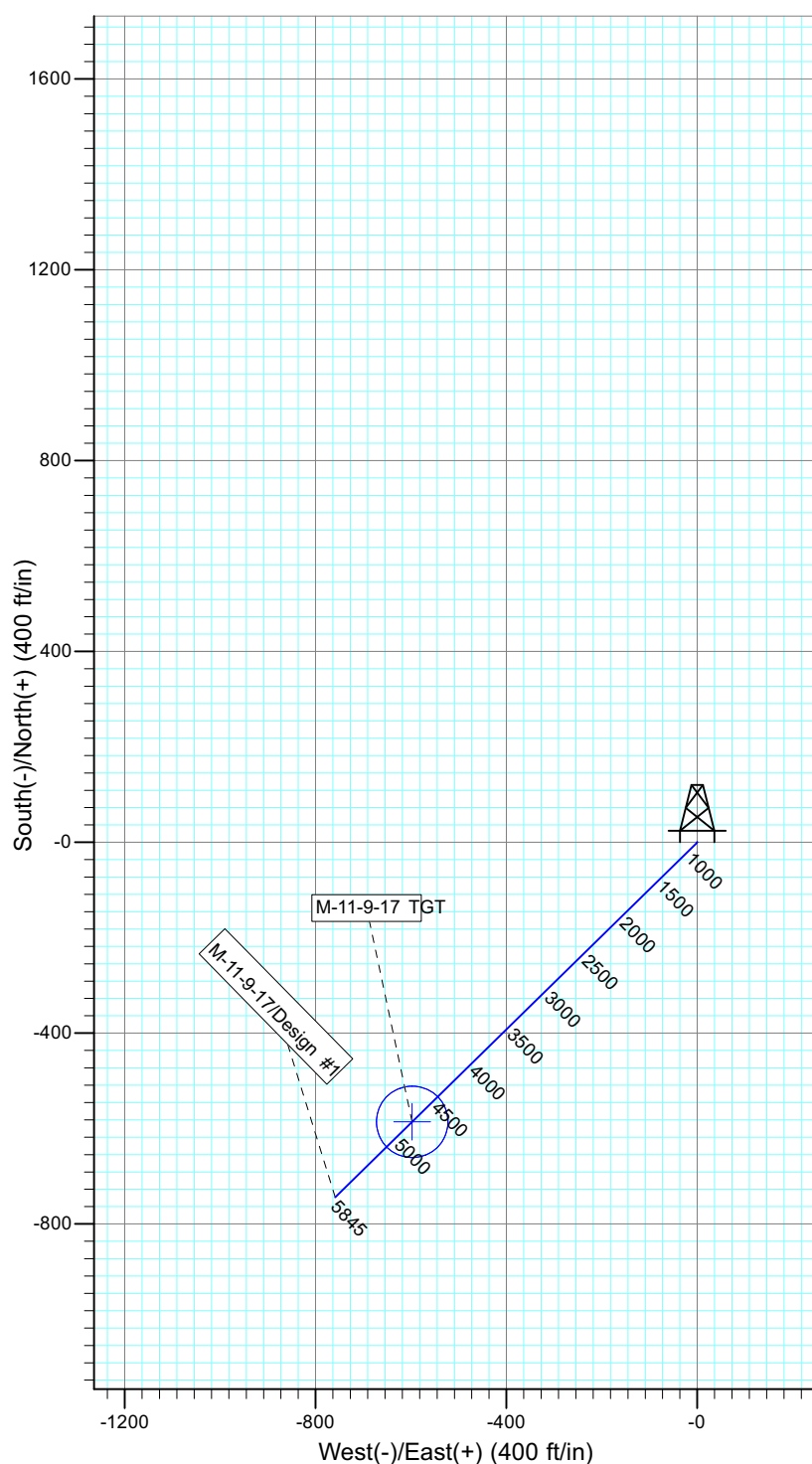
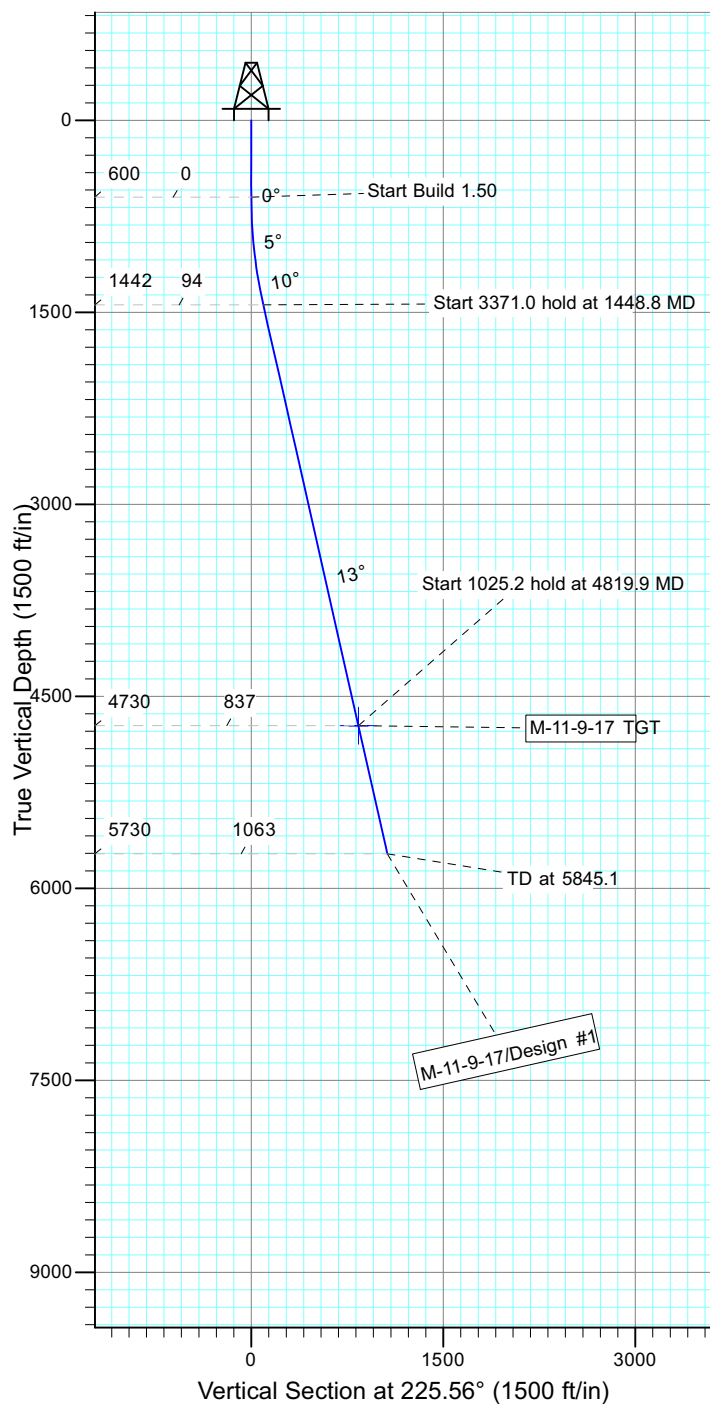
Project: USGS Myton SW (UT)  
 Site: SECTION 11 T9S, R17E  
 Well: M-11-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.14°

Magnetic Field  
 Strength: 52222.9snT  
 Dip Angle: 65.79°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
M-11-9-17 TGT	4730.0	-586.0	-597.5	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1448.8	12.73	225.56	1441.8	-65.8	-67.1	1.50	225.56	93.9	
4	4819.9	12.73	225.56	4730.0	-586.0	-597.5	0.00	0.00	836.9	M-11-9-17 TGT
5	5845.1	12.73	225.56	5730.0	-744.2	-758.8	0.00	0.00	1062.8	

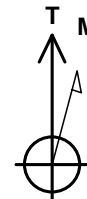


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API Well Number: 43013517340000



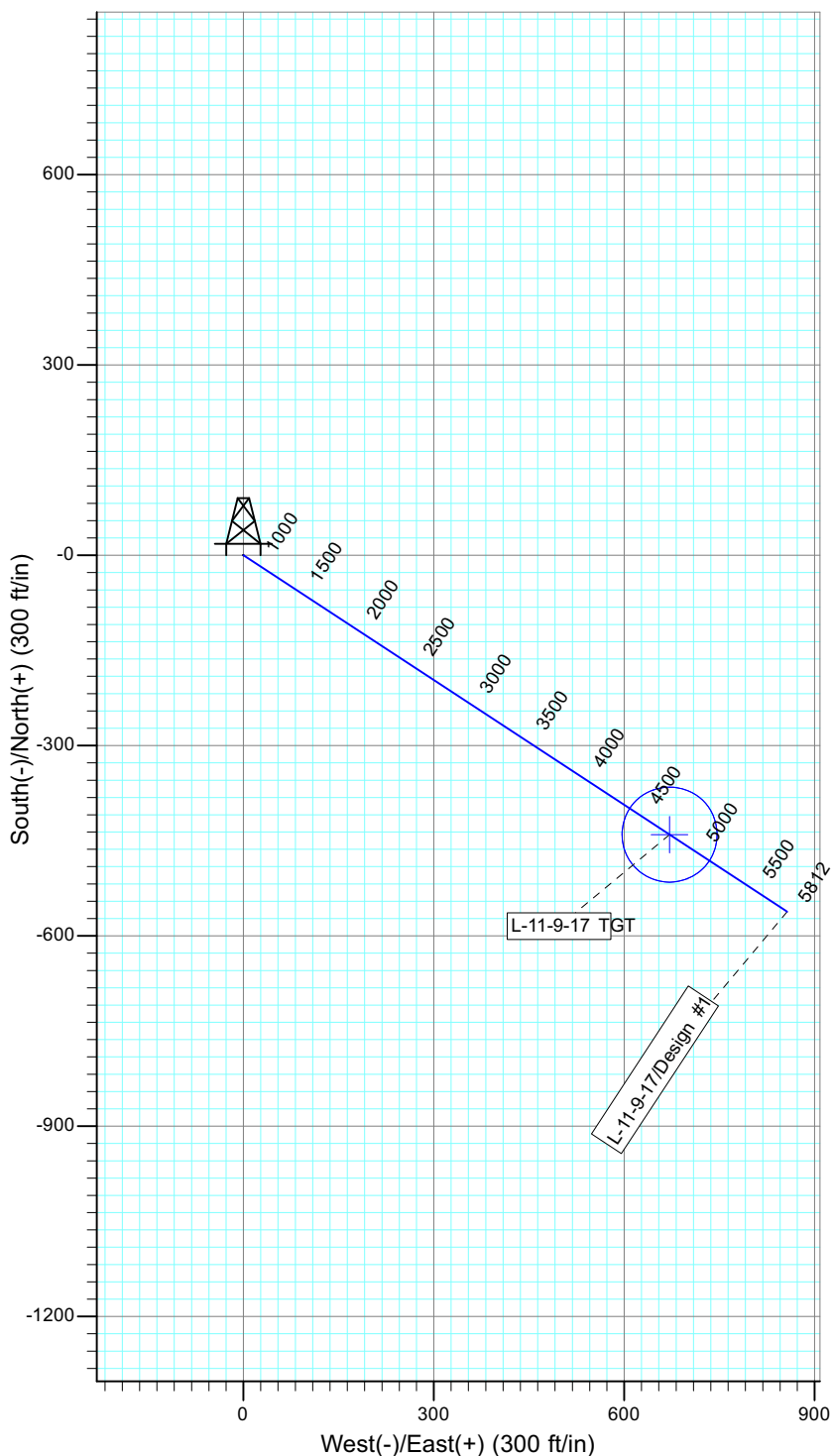
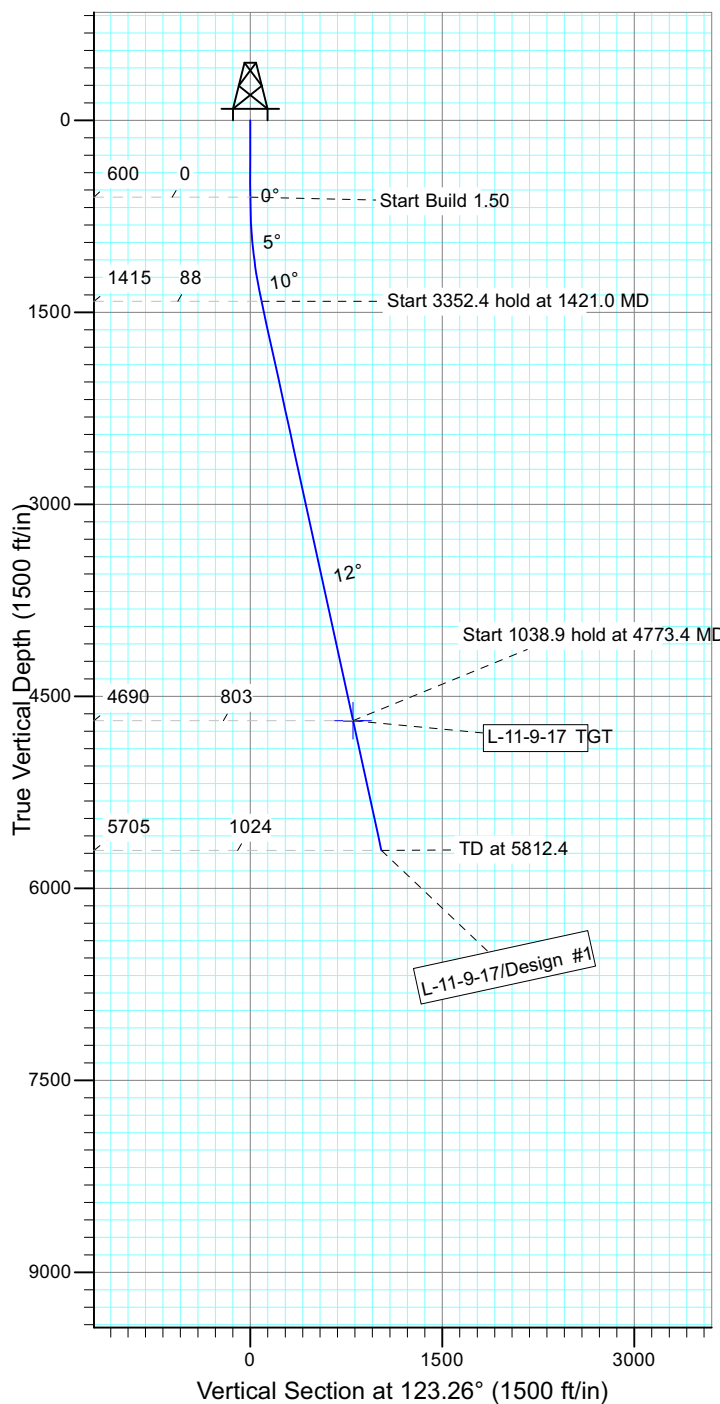
Project: USGS Myton SW (UT)  
 Site: SECTION 11 T9S, R17E  
 Well: L-11-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.14°

Magnetic Field  
 Strength: 52182.4snT  
 Dip Angle: 65.79°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
L-11-9-17 TGT	4690.0	-440.4	671.4	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1421.0	12.31	123.26	1414.7	-48.2	73.5	1.50	123.26	87.9	
4	4773.4	12.31	123.26	4690.0	-440.4	671.4	0.00	0.00	802.9	L-11-9-17 TGT
5	5812.4	12.31	123.26	5705.0	-561.9	856.7	0.00	0.00	1024.5	



Received: September 20, 2012



API Well Number: 43013517340000



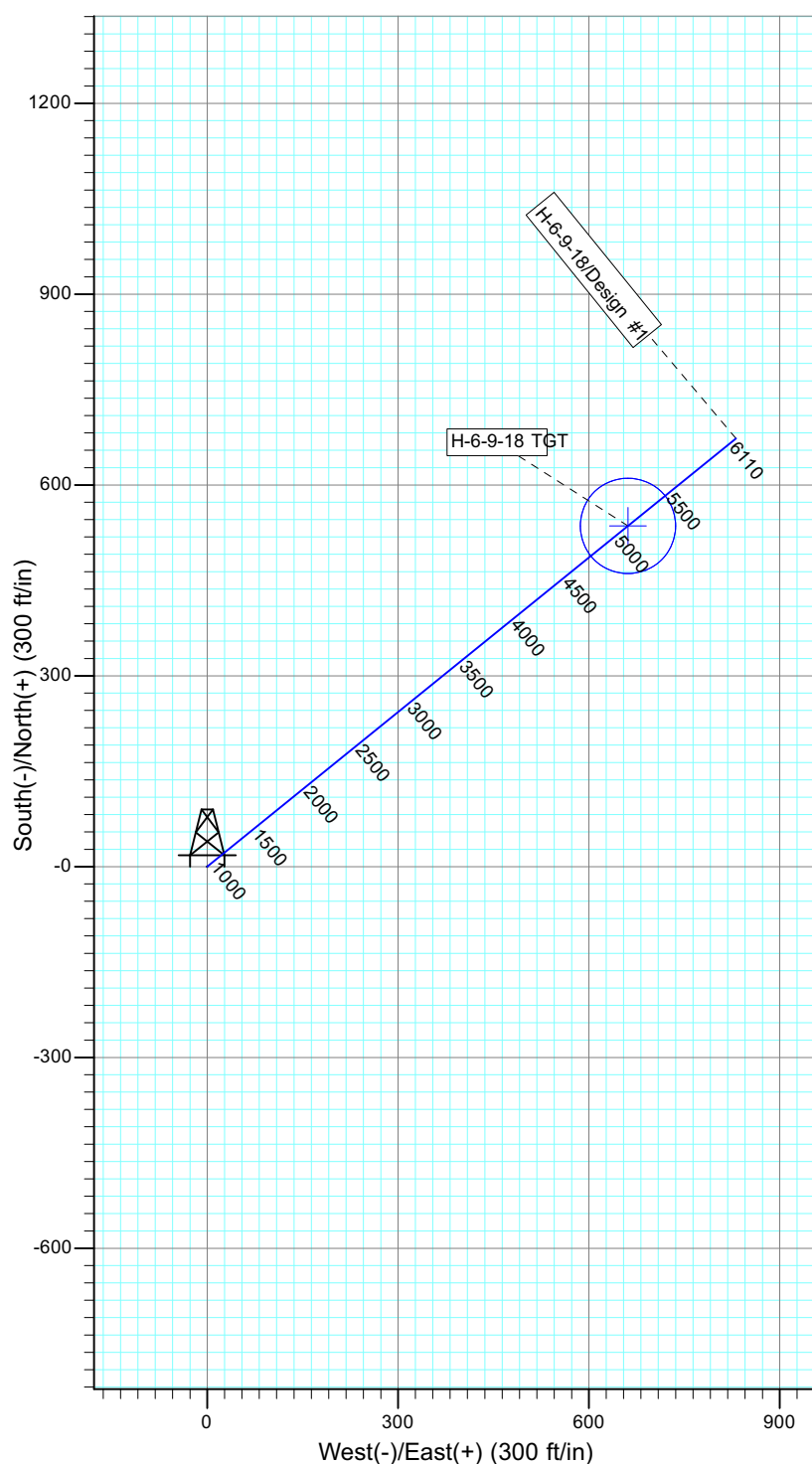
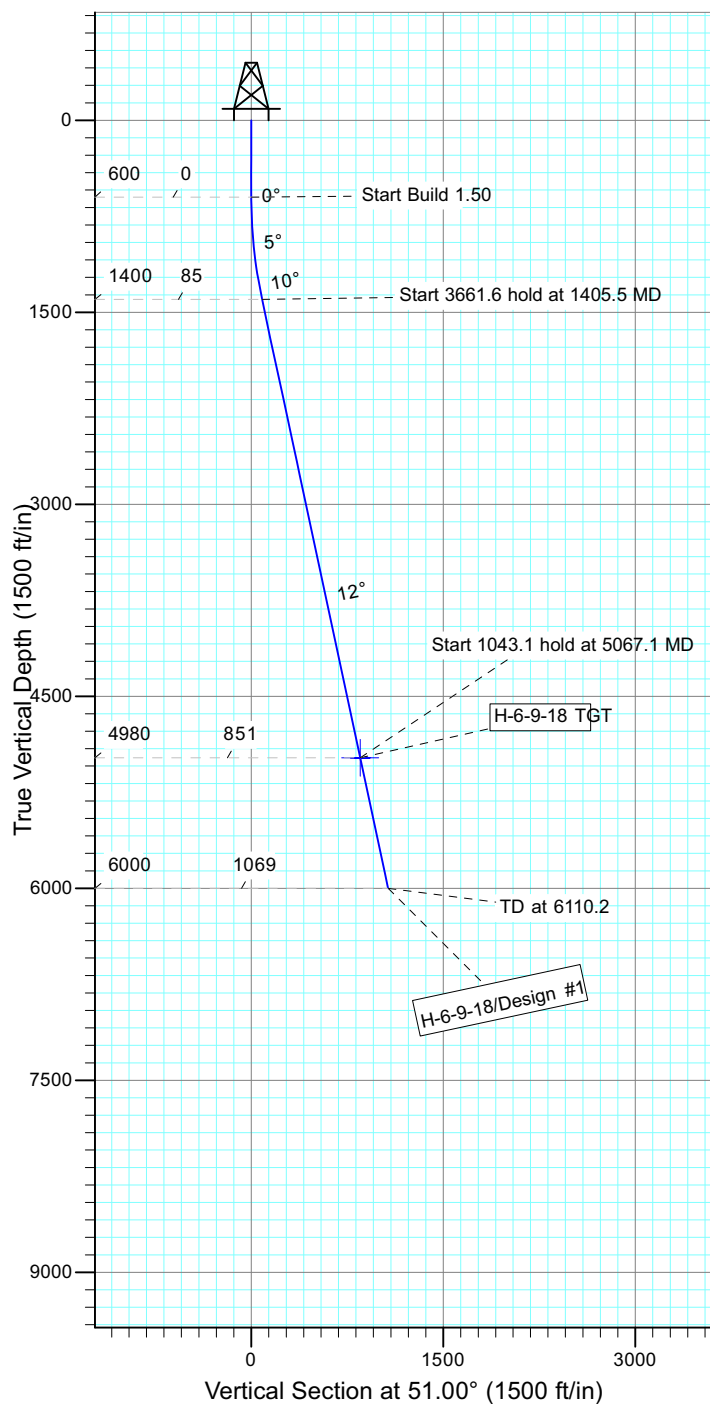
Project: USGS Myton SW (UT)  
 Site: SECTION 6 T9, R18E  
 Well: H-6-9-18  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.13°

Magnetic Field  
 Strength: 52195.5snT  
 Dip Angle: 65.81°  
 Date: 7/10/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
H-6-9-18 TGT	4980.0	535.6	661.3	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1405.5	12.08	51.00	1399.5	53.3	65.8	1.50	51.00	84.6	
4	5067.1	12.08	51.00	4980.0	535.6	661.3	0.00	0.00	851.0	H-6-9-18 TGT
5	6110.2	12.08	51.00	6000.0	673.1	831.0	0.00	0.00	1069.4	

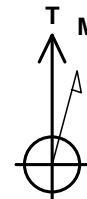


Received: September 20, 2012

API Well Number: 43013517340000



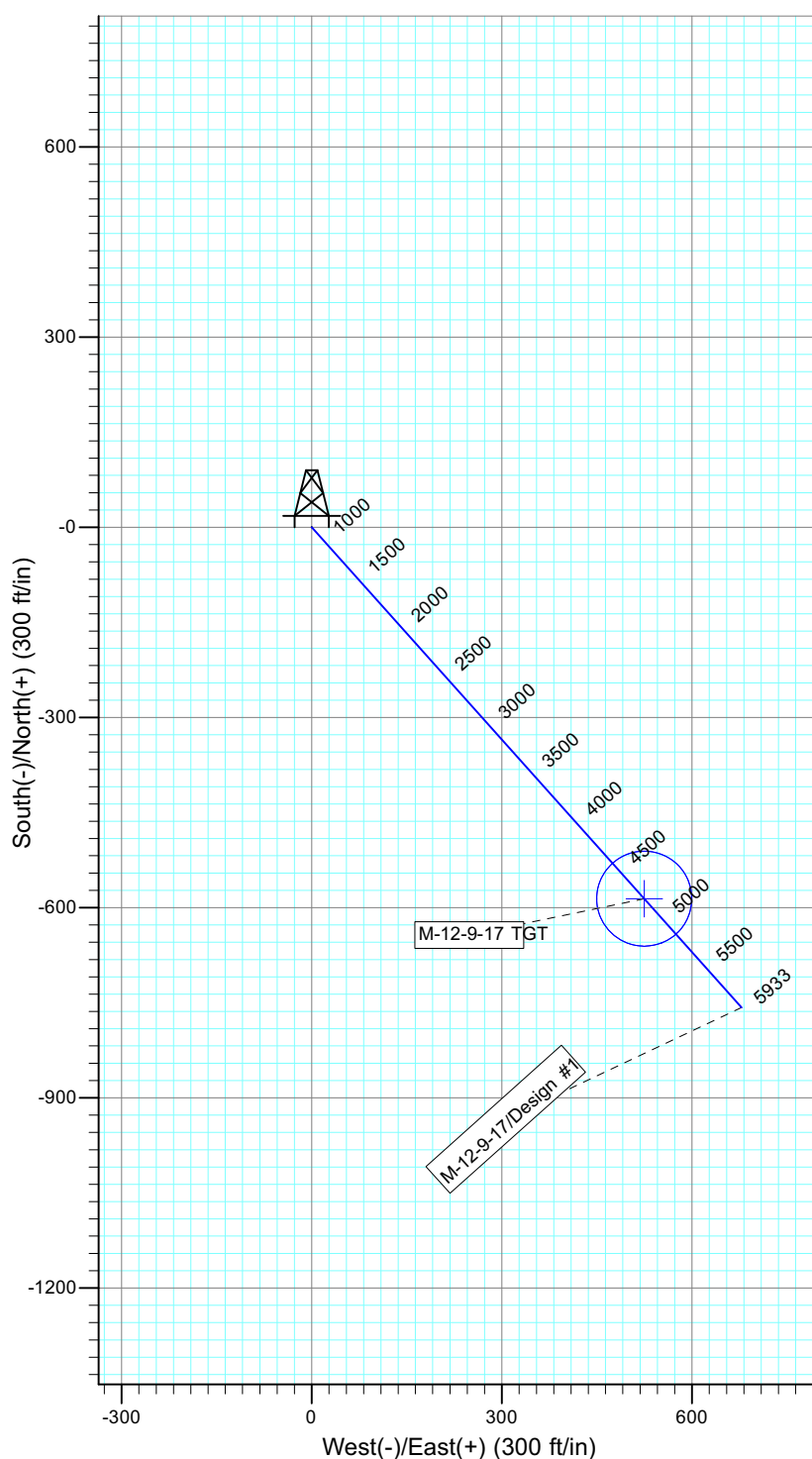
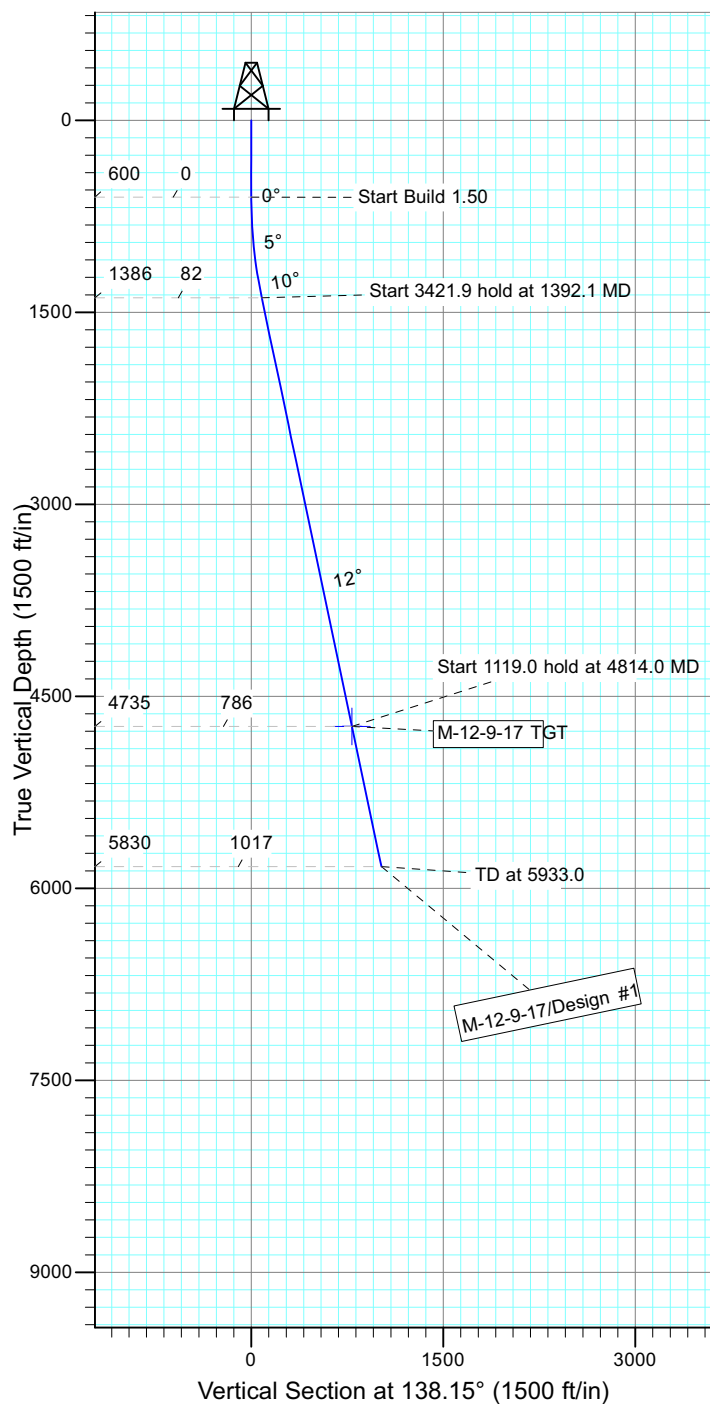
Project: USGS Myton SW (UT)  
 Site: SECTION 12 TS9 R17E  
 Well: M-12-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.13°

Magnetic Field  
 Strength: 52184.5snT  
 Dip Angle: 65.79°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
M-12-9-17 TGT	4735.0	-585.8	524.7	Circle (Radius: 75.0)

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1392.1	11.88	138.15	1386.4	-61.0	54.6	1.50	138.15	81.8	
4	4814.0	11.88	138.15	4735.0	-585.8	524.7	0.00	0.00	786.4	M-12-9-17 TGT
5	5933.0	11.88	138.15	5830.0	-757.4	678.4	0.00	0.00	1016.8	



Received: September 20, 2012

API Well Number: 43013517340000



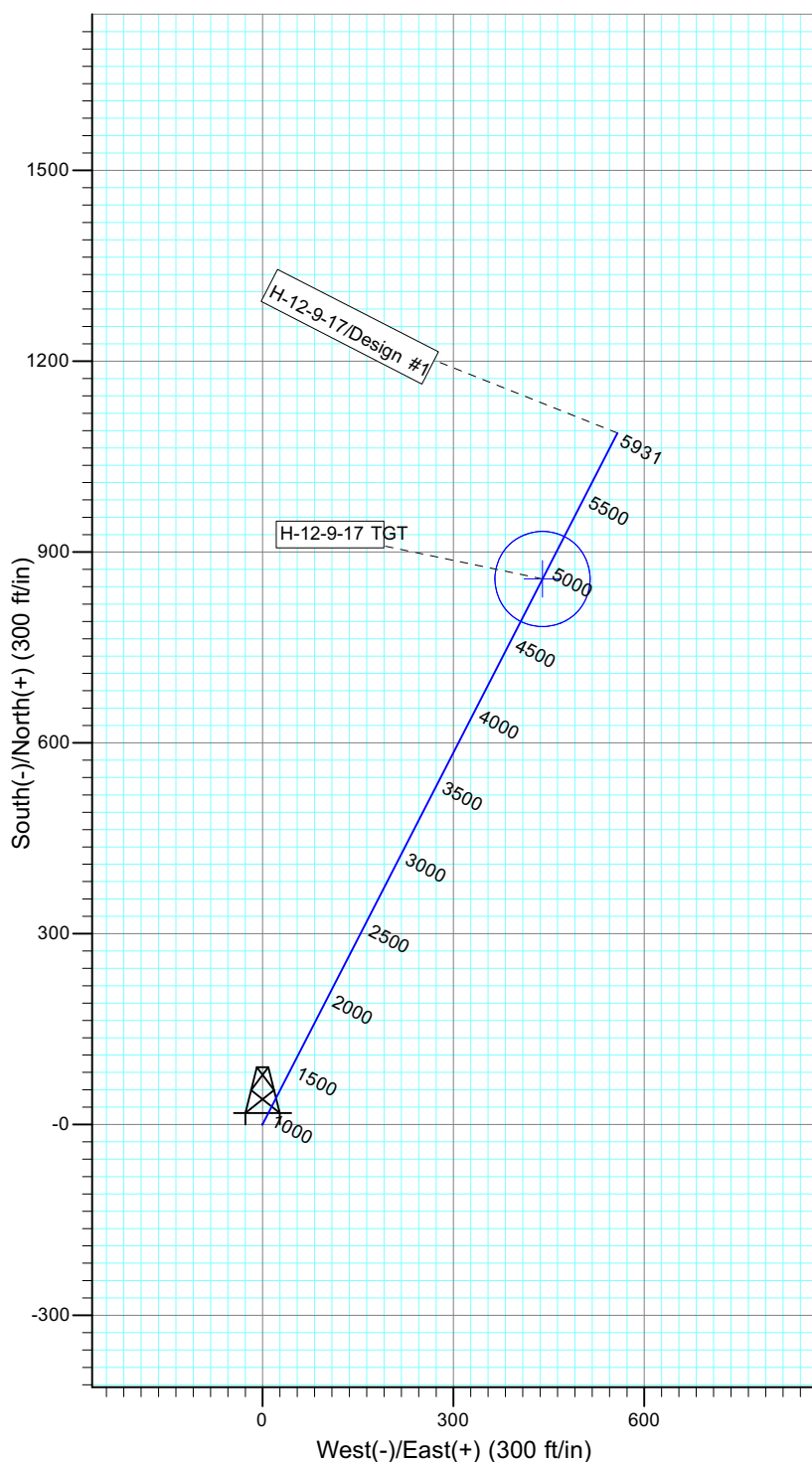
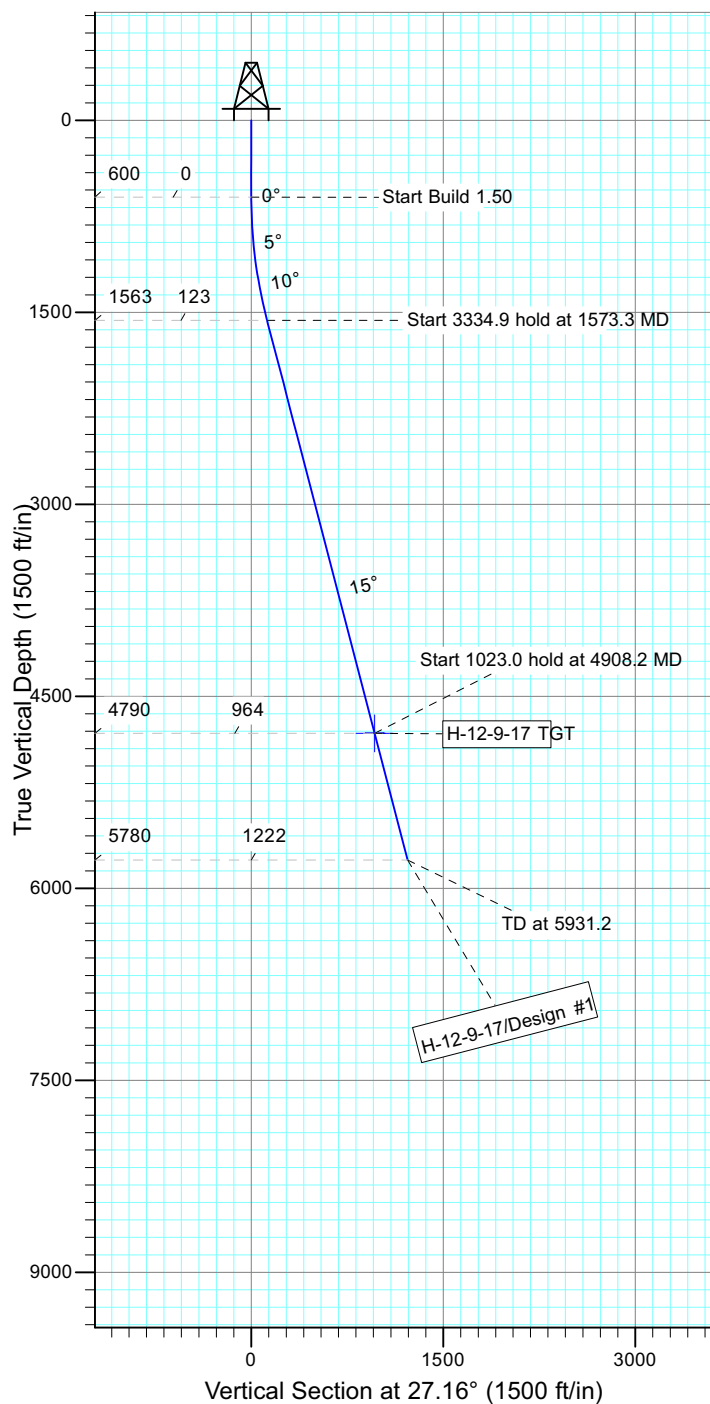
Project: USGS Myton SW (UT)  
 Site: SECTION 12 TS9 R17E  
 Well: H-12-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.13°

Magnetic Field  
 Strength: 52184.5snT  
 Dip Angle: 65.79°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
H-12-9-17 TGT	4790.0	857.6	440.0	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1573.3	14.60	27.16	1562.8	109.7	56.3	1.50	27.16	123.3	
4	4908.2	14.60	27.16	4790.0	857.6	440.0	0.00	0.00	963.9	H-12-9-17 TGT
5	5931.2	14.60	27.16	5780.0	1087.0	557.8	0.00	0.00	1221.8	



Received: September 20, 2012

API Well Number: 43013517340000



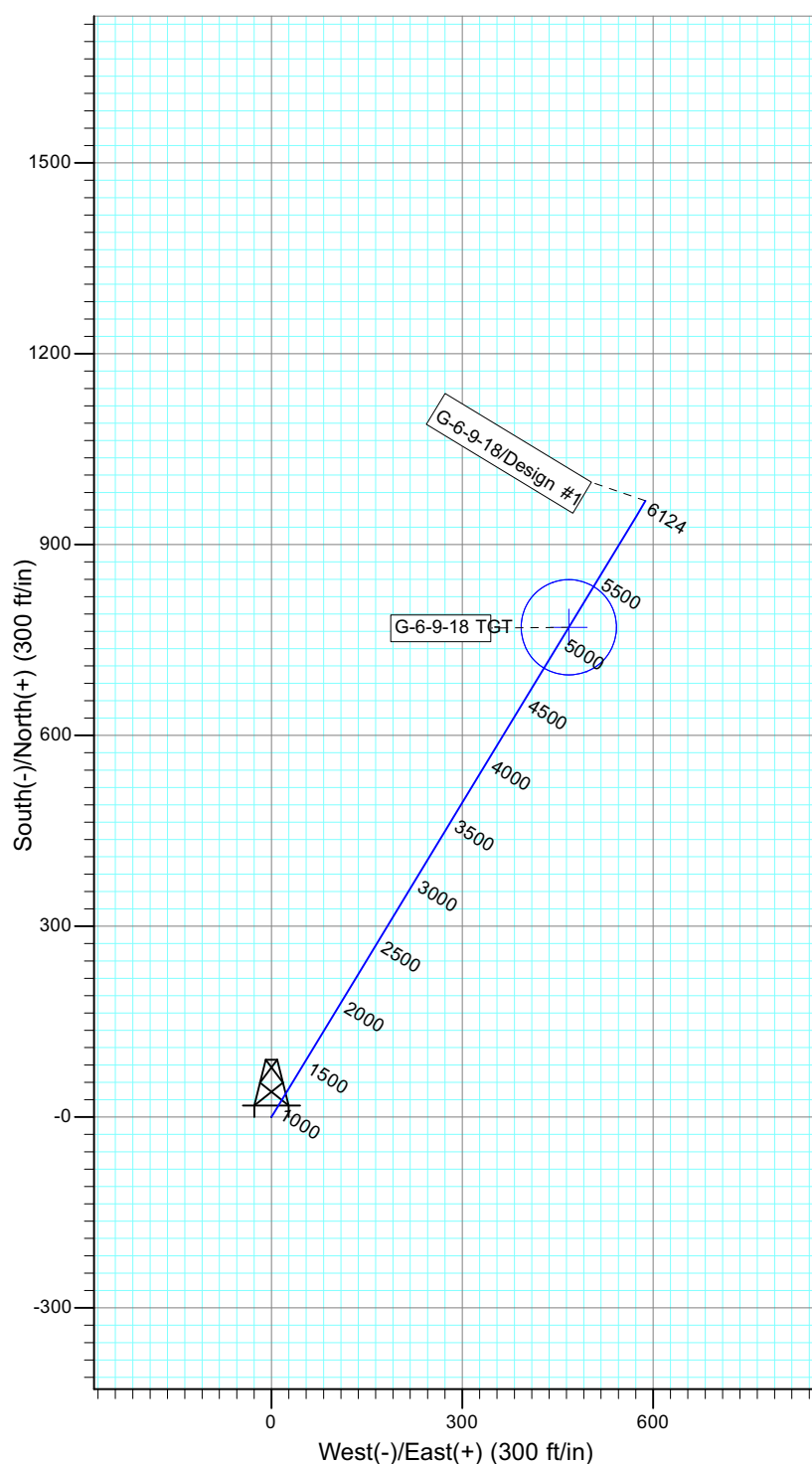
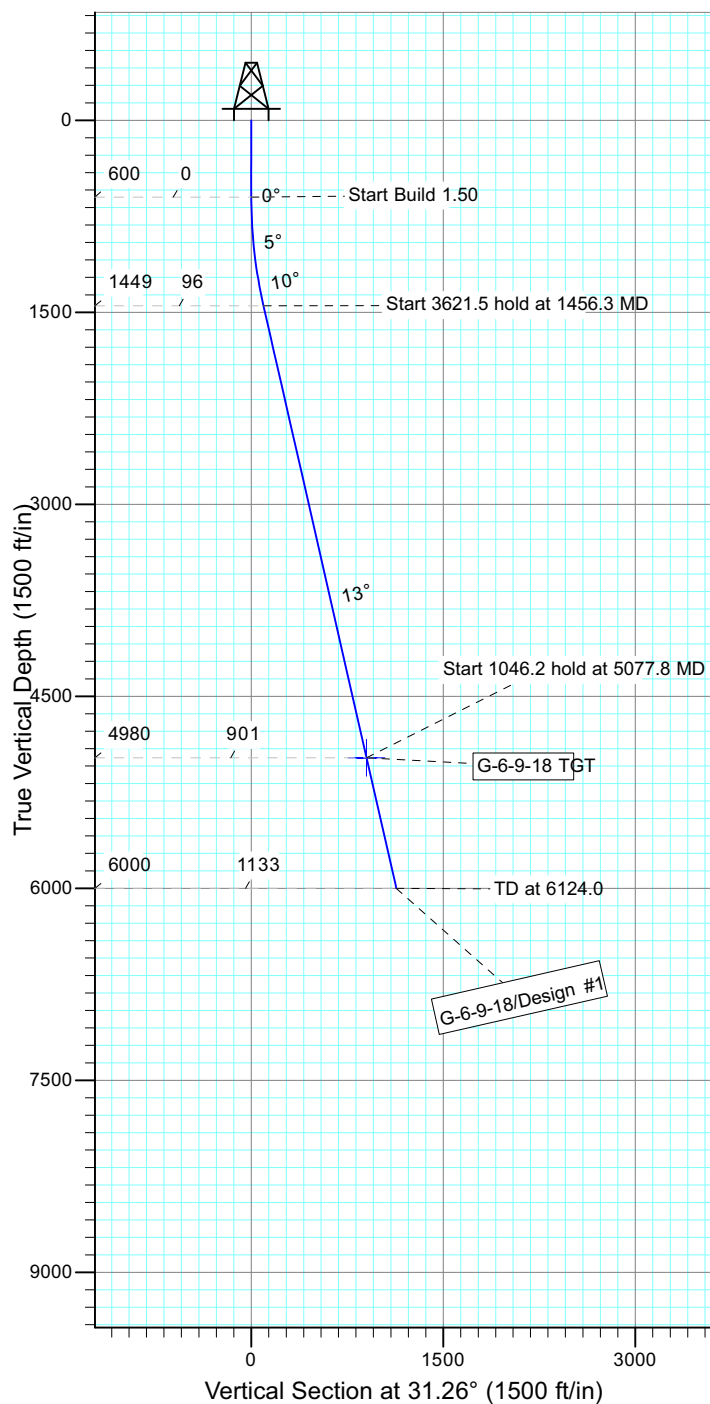
Project: USGS Myton SW (UT)  
 Site: SECTION 6 T9, R18E  
 Well: G-6-9-18  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.13°

Magnetic Field  
 Strength: 52194.5snT  
 Dip Angle: 65.81°  
 Date: 7/10/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
G-6-9-18 TGT	4980.0	769.9	467.4	Circle (Radius: 75.0)

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1456.3	12.84	31.26	1449.2	81.7	49.6	1.50	31.26	95.6	
4	5077.8	12.84	31.26	4980.0	769.9	467.4	0.00	0.00	900.7	G-6-9-18 TGT
5	6124.0	12.84	31.26	6000.0	968.7	588.1	0.00	0.00	1133.2	



Received: September 20, 2012

API Well Number: 43013517340000



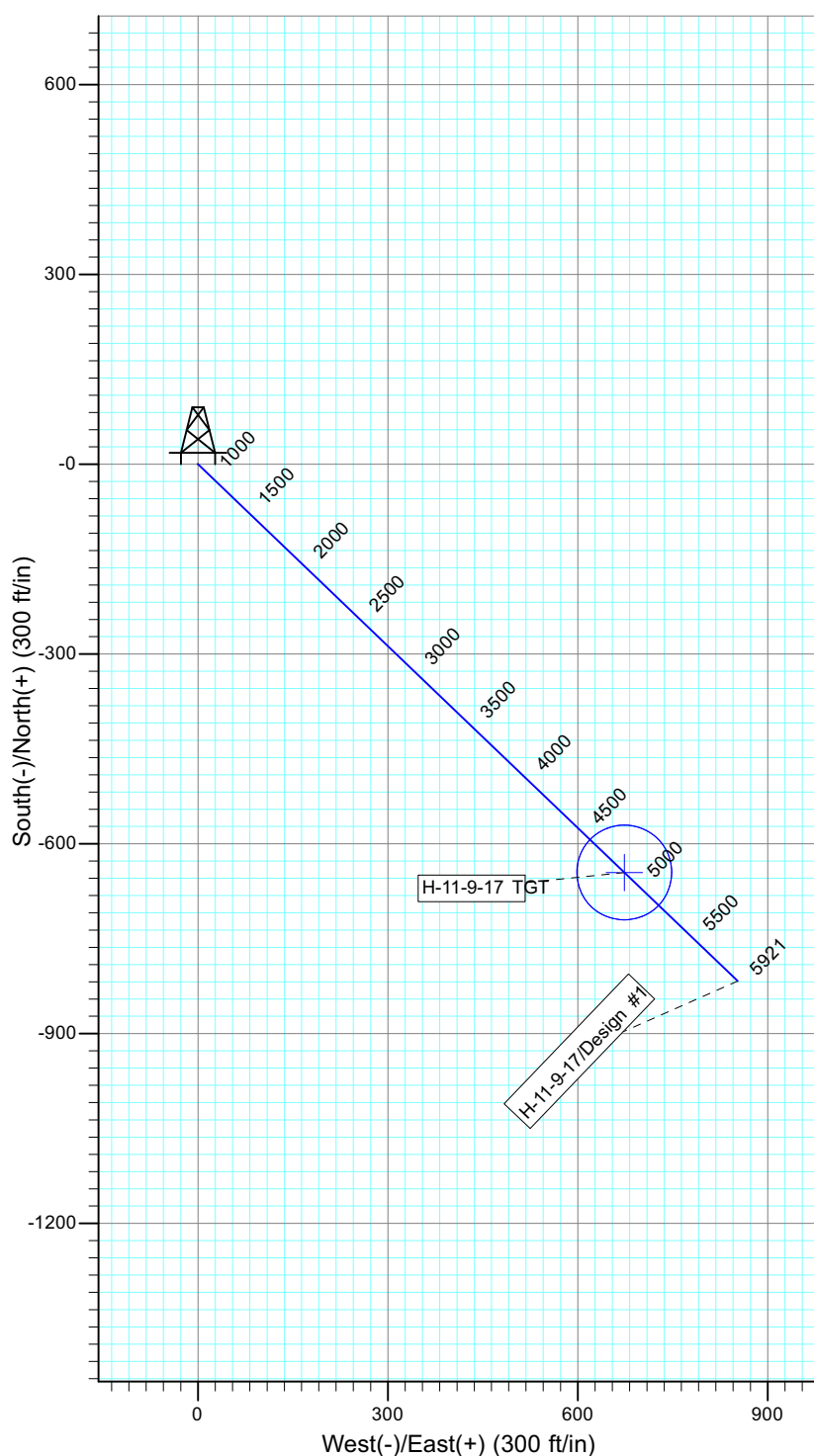
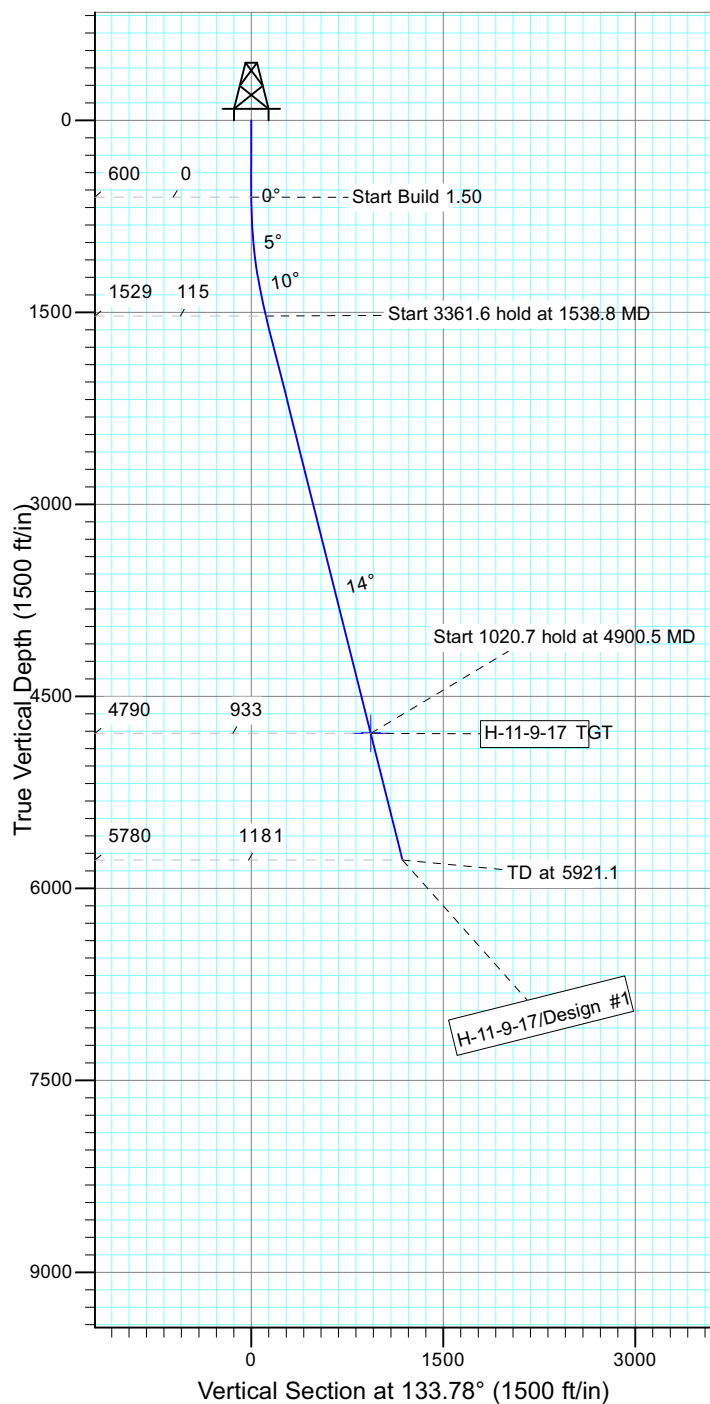
Project: USGS Myton SW (UT)  
 Site: SECTION 11 T9S, R17E  
 Well: H-11-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.14°

Magnetic Field  
 Strength: 52183.7snT  
 Dip Angle: 65.79°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
H-11-9-17 TGT	4790.0	-645.4	673.4	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1538.8	14.08	133.78	1529.4	-79.4	82.9	1.50	133.78	114.8	
4	4900.5	14.08	133.78	4790.0	-645.4	673.4	0.00	0.00	932.7	H-11-9-17 TGT
5	5921.1	14.08	133.78	5780.0	-817.2	852.7	0.00	0.00	1181.1	

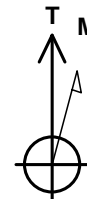


Received: September 20, 2012

API Well Number: 43013517340000



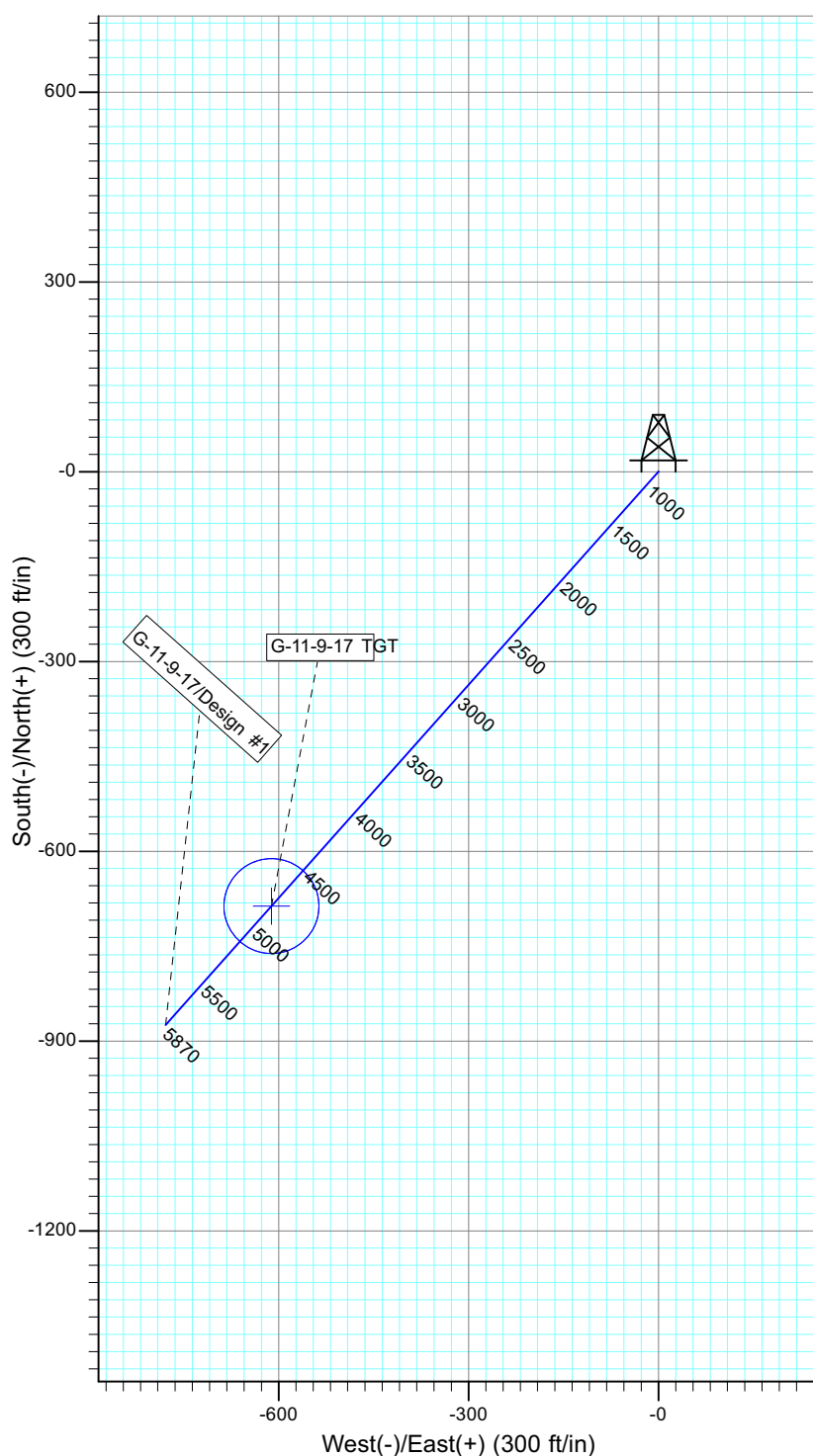
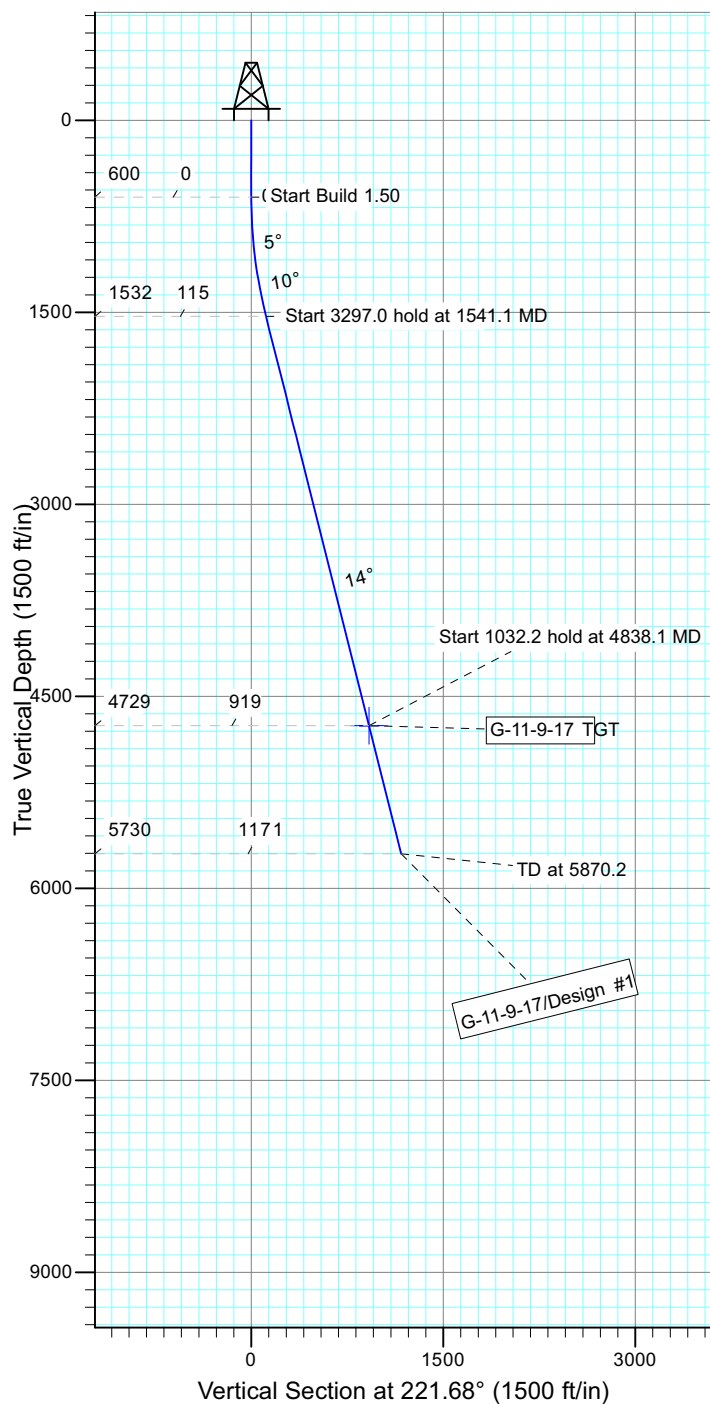
Project: USGS Myton SW (UT)  
 Site: SECTION 11 T9S, R17E  
 Well: G-11-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.14°

Magnetic Field  
 Strength: 52183.7snT  
 Dip Angle: 65.79°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
G-11-9-17 TGT	4729.0	-686.7	-611.4	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1541.1	14.12	221.68	1531.6	-86.1	-76.7	1.50	221.68	115.3	
4	4838.1	14.12	221.68	4729.0	-686.7	-611.4	0.00	0.00	919.4	G-11-9-17 TGT
5	5870.2	14.12	221.68	5730.0	-874.7	-778.8	0.00	0.00	1171.2	

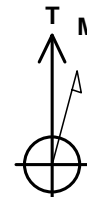


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API Well Number: 43013517340000



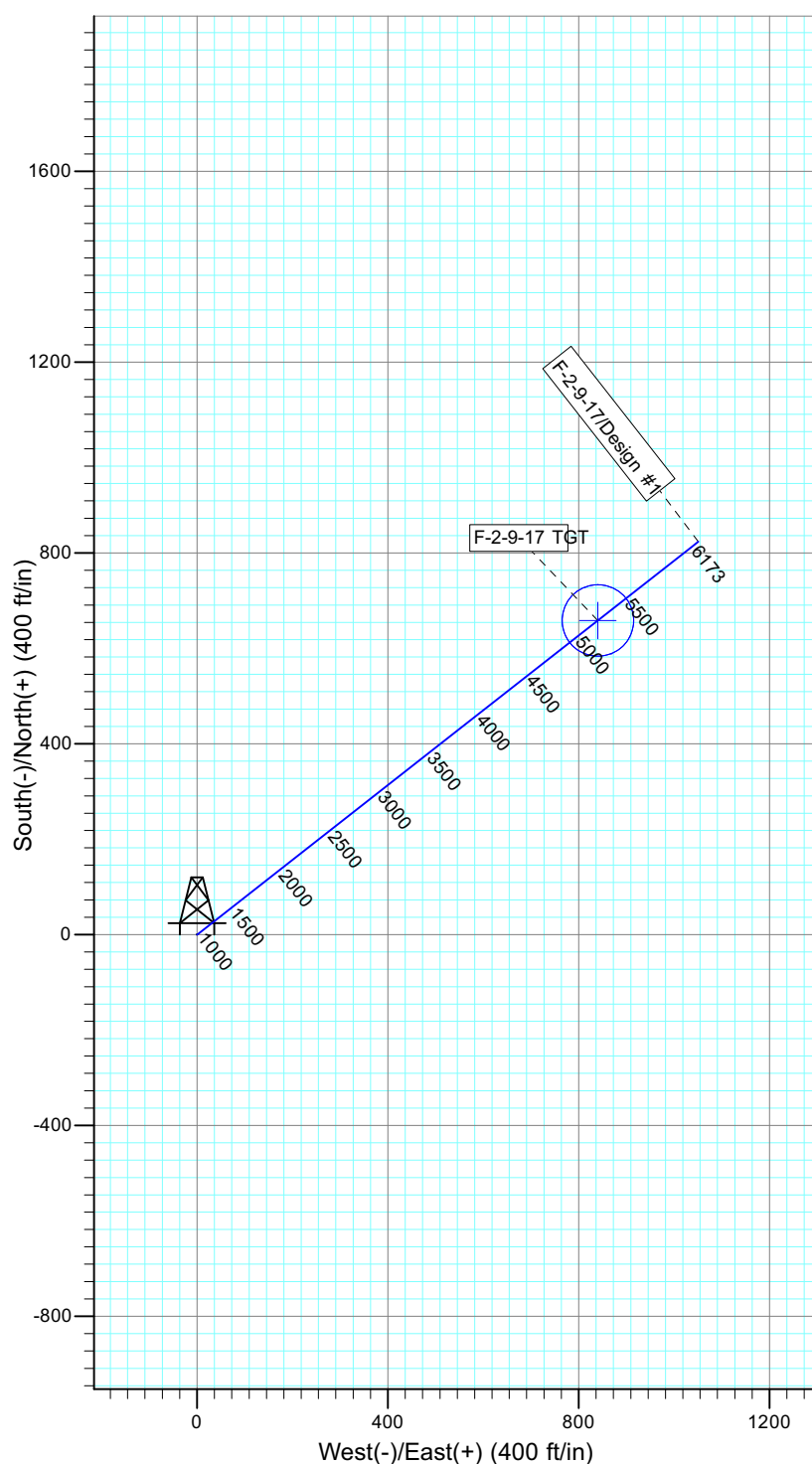
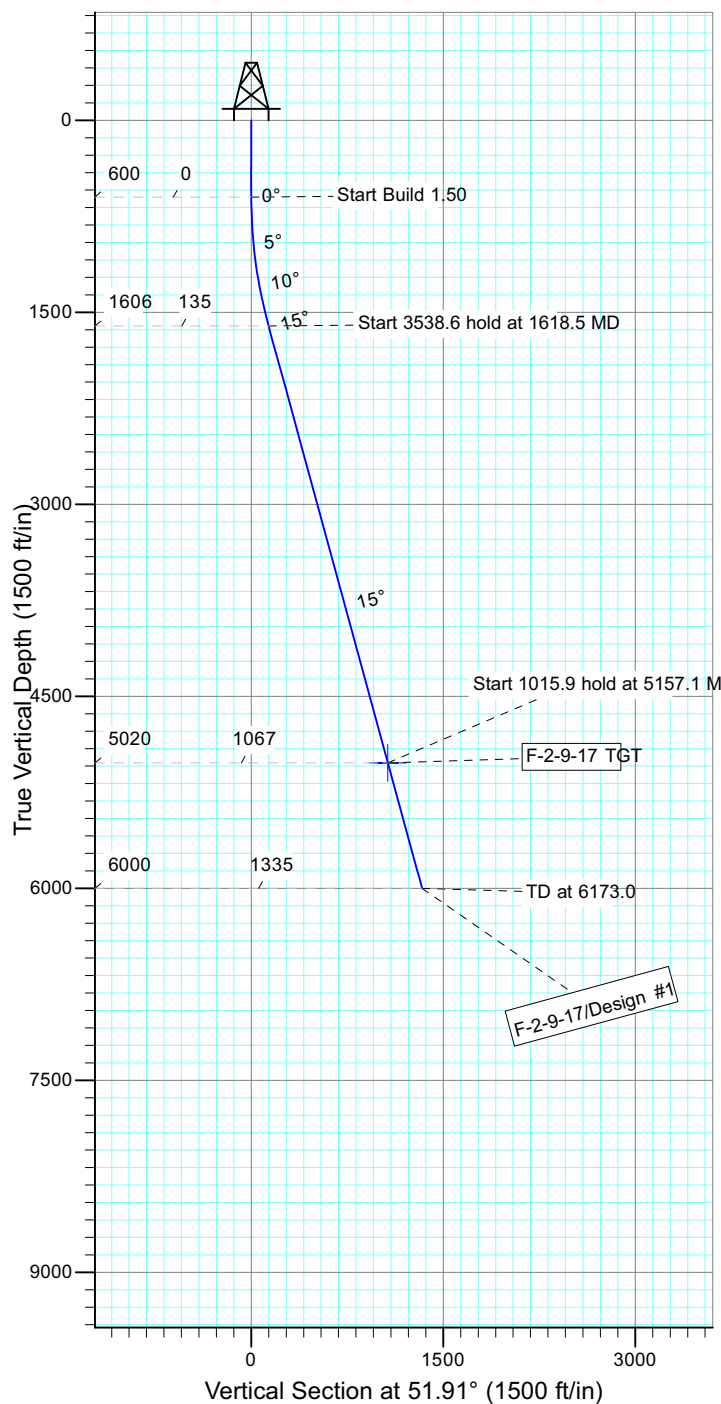
Project: USGS Myton SW (UT)  
 Site: SECTION 3 T9S, R17E  
 Well: F-2-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.15°

Magnetic Field  
 Strength: 52188.1snT  
 Dip Angle: 65.80°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
F-2-9-17 TGT	5020.0	658.4	840.1	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1618.5	15.28	51.91	1606.5	83.3	106.3	1.50	51.91	135.0	
4	5157.1	15.28	51.91	5020.0	658.4	840.1	0.00	0.00	1067.4	F-2-9-17 TGT
5	6173.0	15.28	51.91	6000.0	823.5	1050.8	0.00	0.00	1335.1	



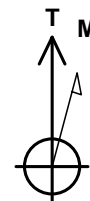
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API Well Number: 43013517340000



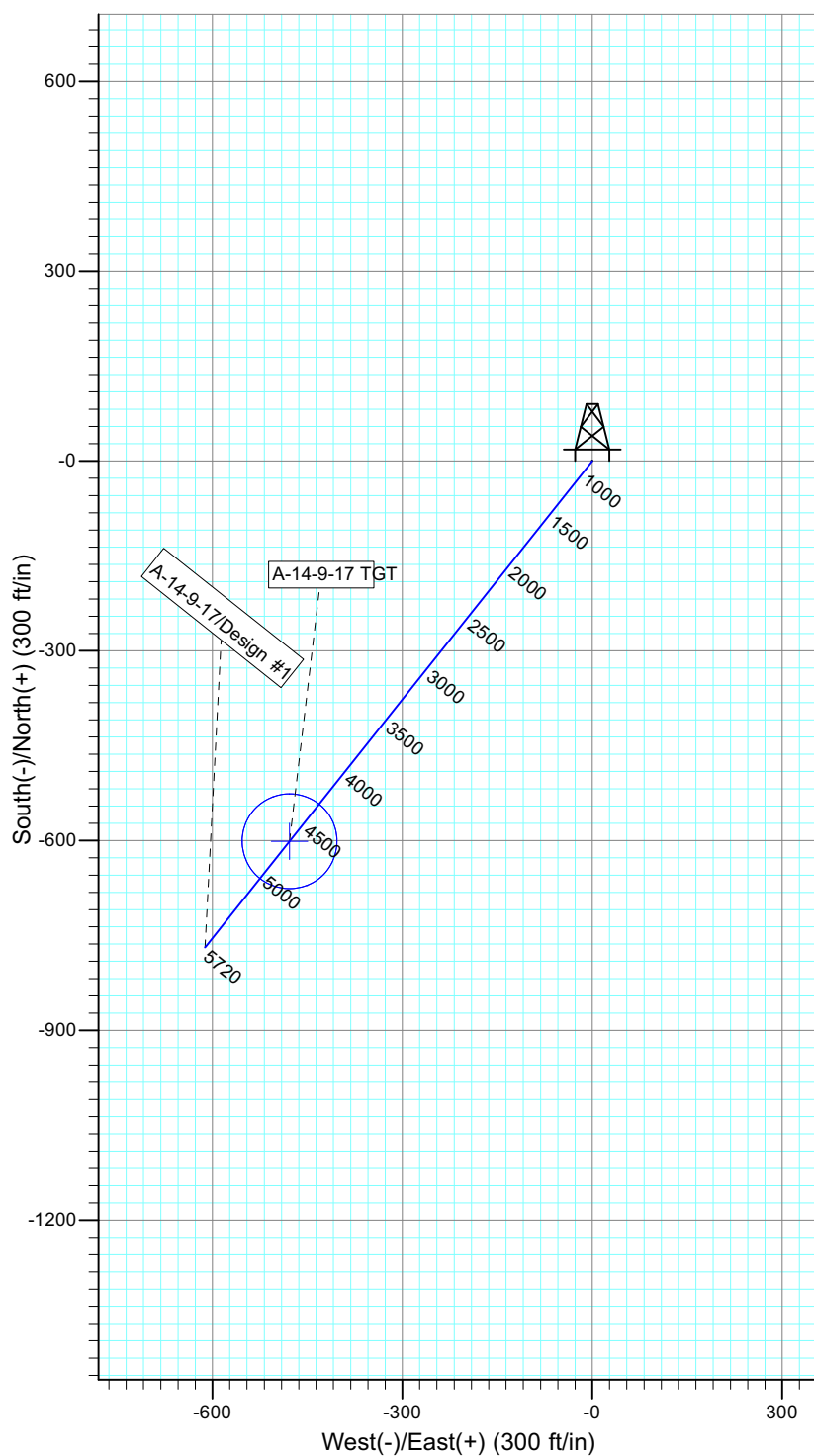
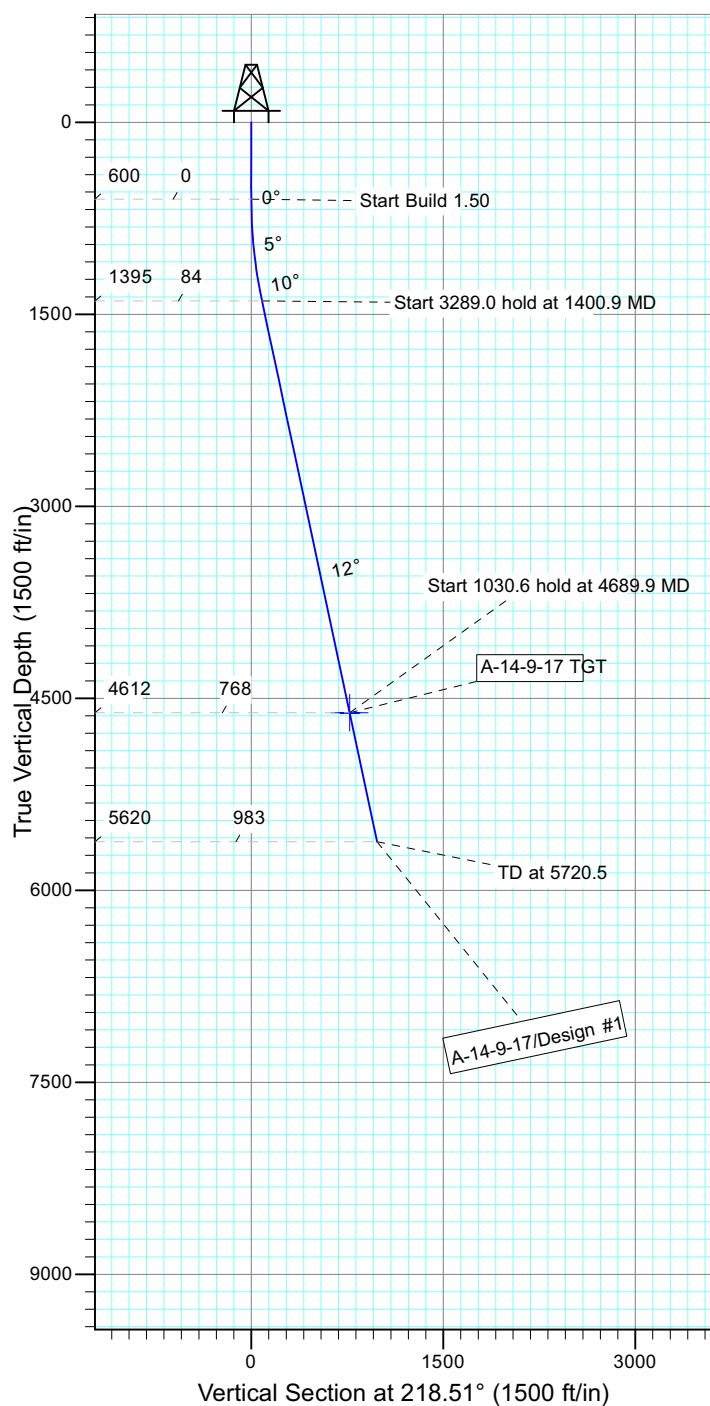
Project: USGS Myton SW (UT)  
 Site: SECTION 12 TS9 R17E  
 Well: A-14-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.14°

Magnetic Field  
 Strength: 52179.6snT  
 Dip Angle: 65.78°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
A-14-9-17 TGT	4612.0	-601.1	-478.3	Circle (Radius: 75.0)

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1400.9	12.01	218.51	1395.1	-65.5	-52.1	1.50	218.51	83.7	
4	4689.9	12.01	218.51	4612.0	-601.1	-478.3	0.00	0.00	768.2	A-14-9-17 TGT
5	5720.5	12.01	218.51	5620.0	-769.0	-611.9	0.00	0.00	982.7	



Received: September 20, 2012

API Well Number: 43013517340000



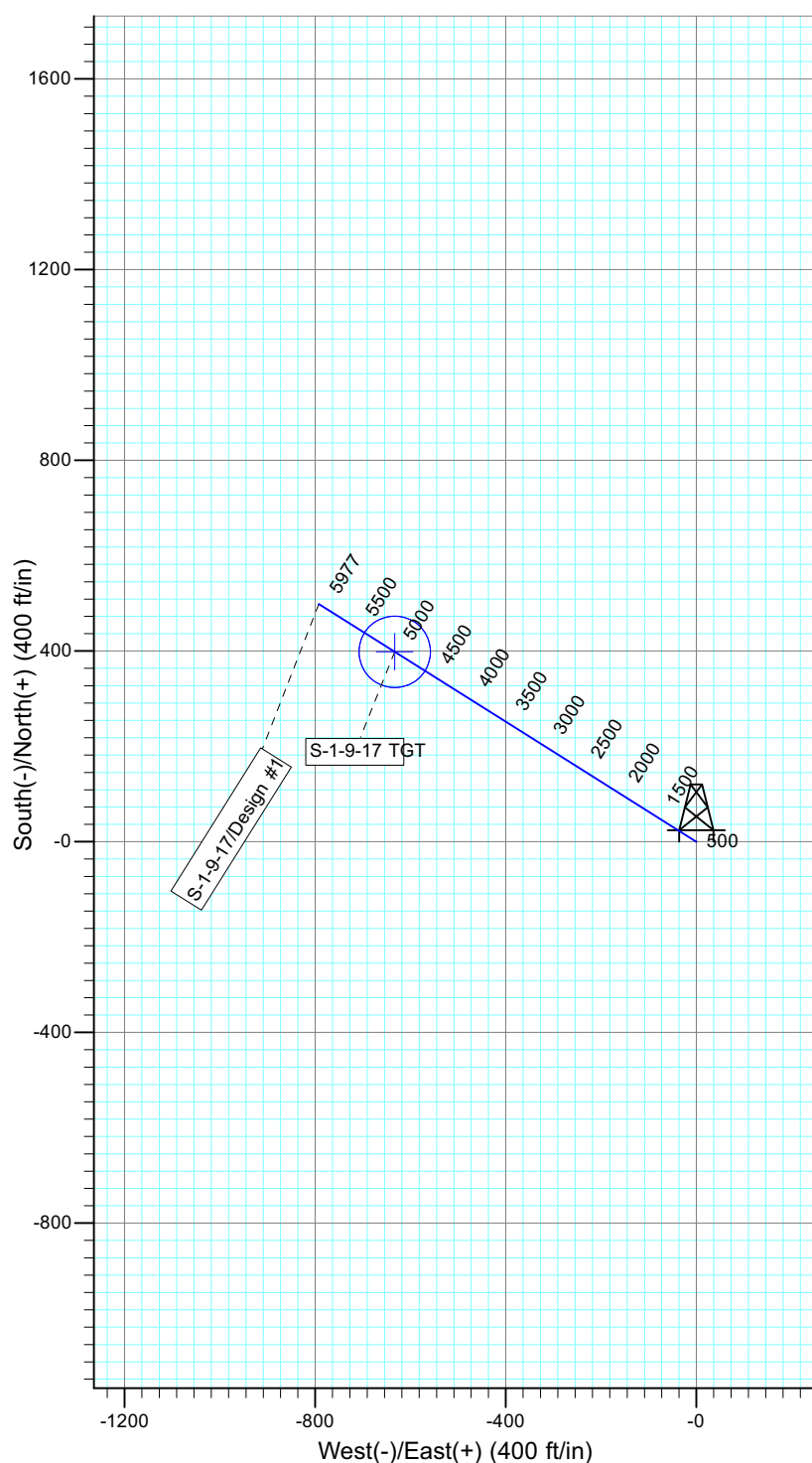
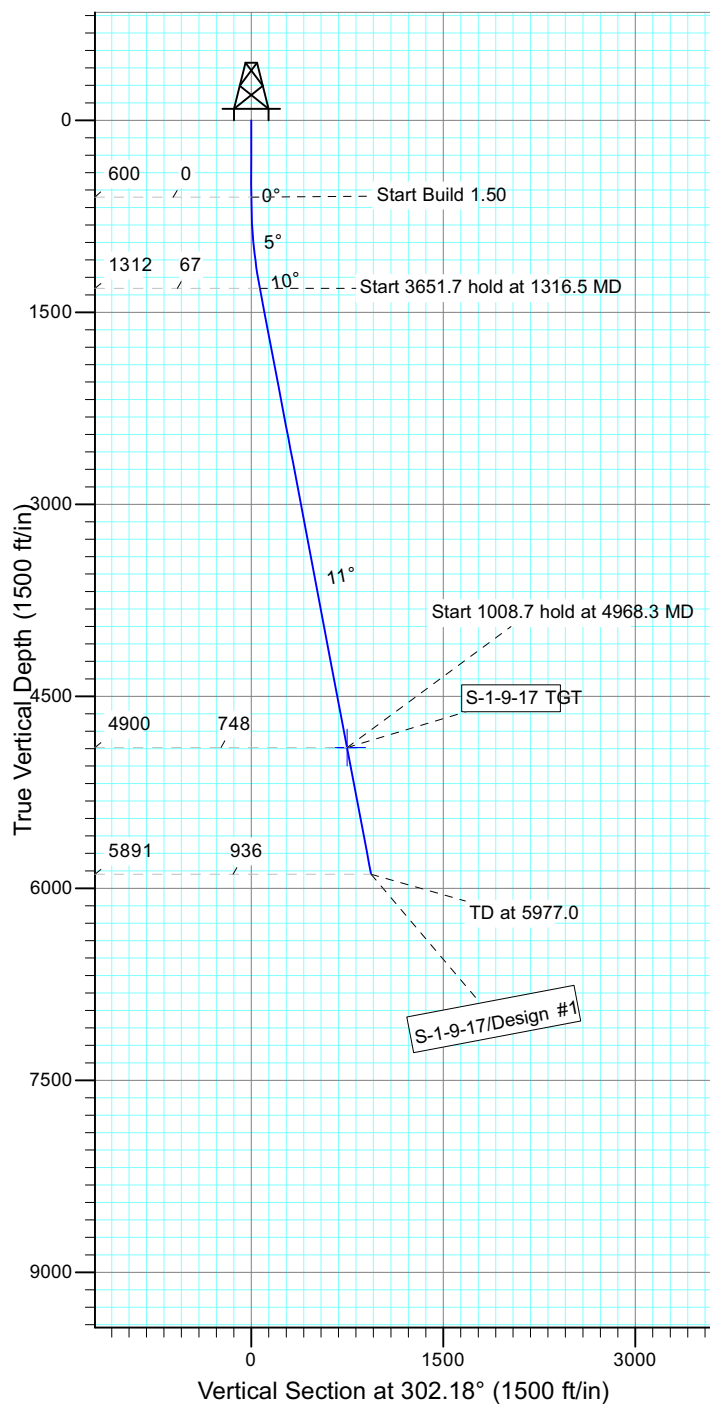
Project: USGS Myton SW (UT)  
 Site: SECTION 1 T9S, 17E  
 Well: S-1-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.13°

Magnetic Field  
 Strength: 52190.0snT  
 Dip Angle: 65.80°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
S-1-9-17 TGT	4900.0	398.4	-633.1	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1316.5	10.75	302.18	1312.4	35.7	-56.7	1.50	302.18	67.0	
4	4968.3	10.75	302.18	4900.0	398.4	-633.1	0.00	0.00	748.0	S-1-9-17 TGT
5	5977.0	10.75	302.18	5891.0	498.6	-792.3	0.00	0.00	936.1	



Received: September 20, 2012

API Well Number: 43013517340000



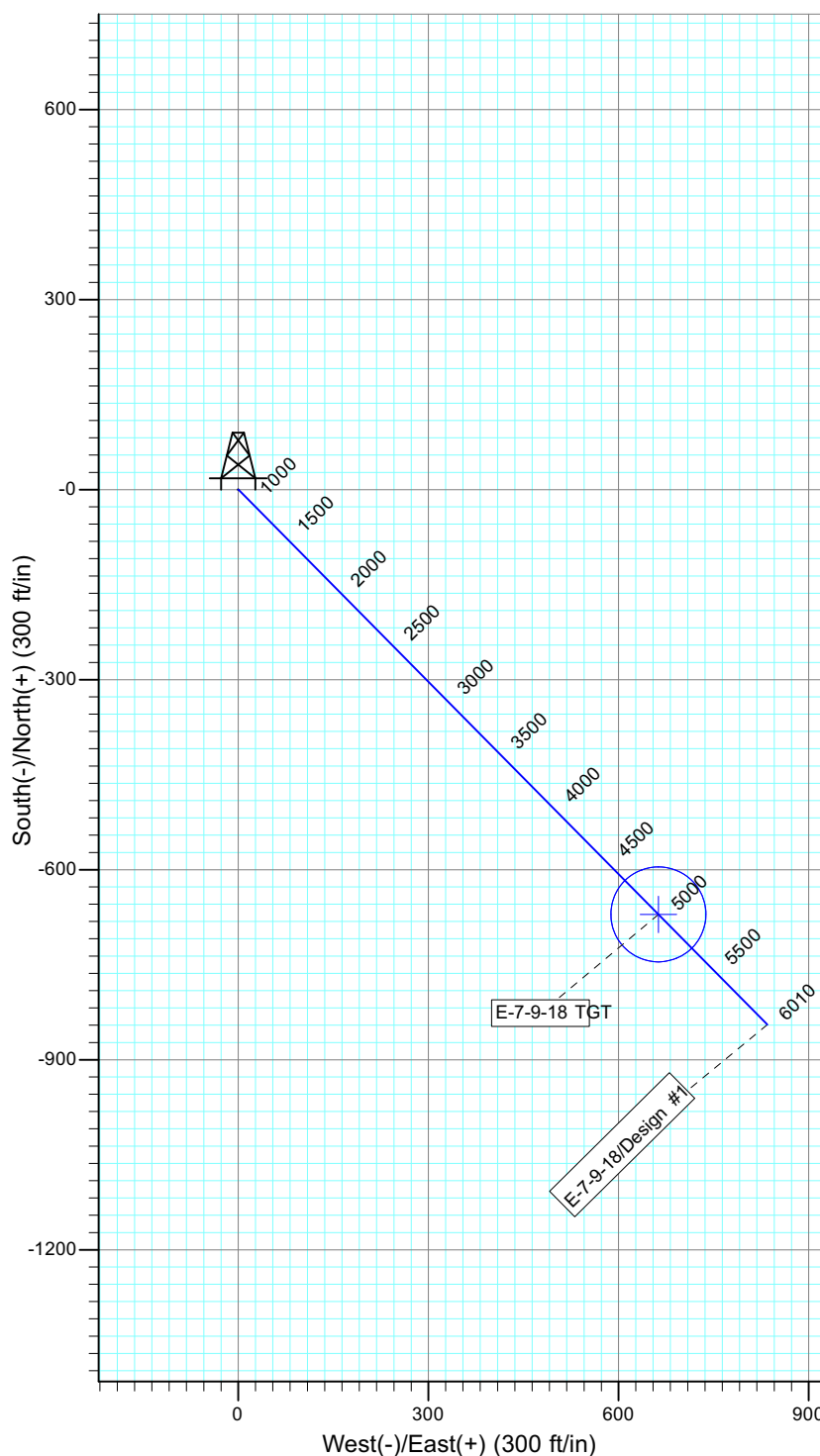
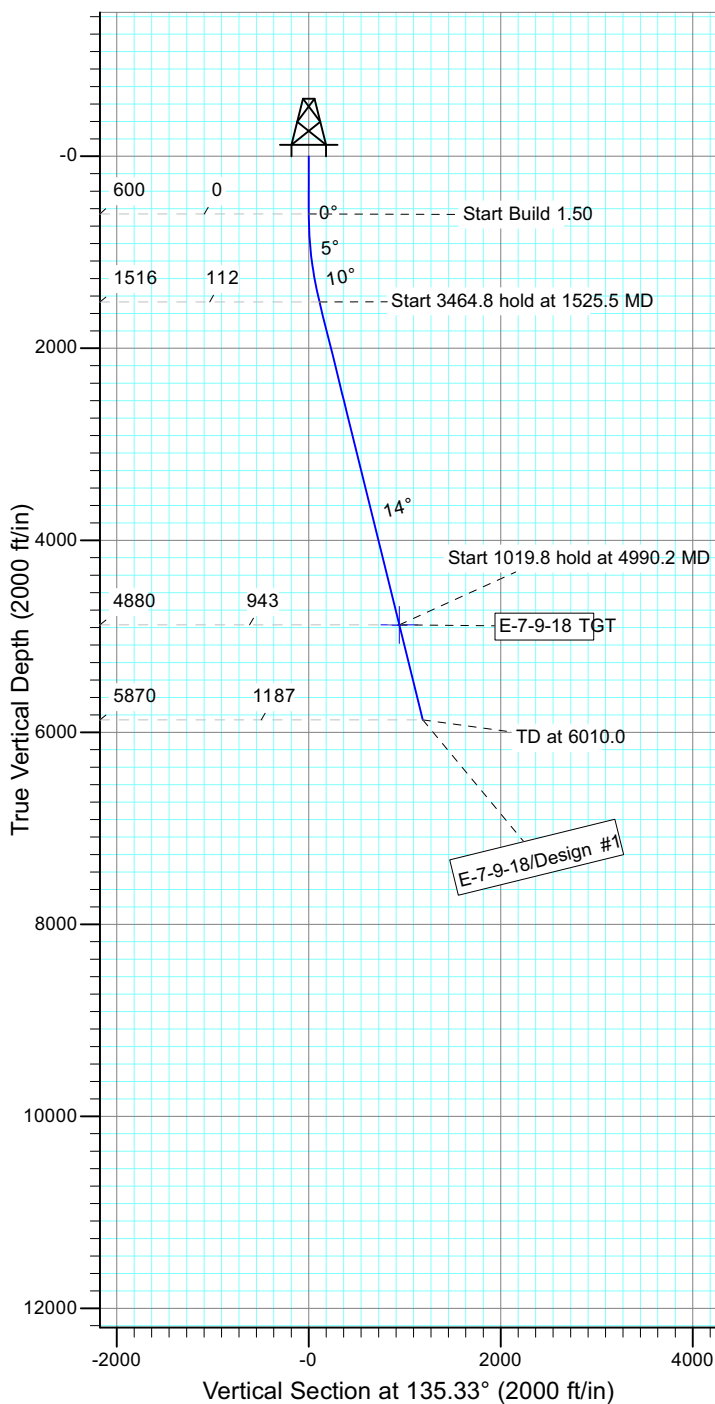
Project: USGS Myton SW (UT)  
 Site: SECTION 1 T9S, 17E  
 Well: E-7-9-18  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.13°

Magnetic Field  
 Strength: 52190.0snT  
 Dip Angle: 65.80°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
E-7-9-18 TGT	4880.0	-670.5	662.8	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1525.5	13.88	135.33	1516.4	-79.3	78.4	1.50	135.33	111.6	
4	4990.2	13.88	135.33	4880.0	-670.5	662.8	0.00	0.00	942.8	E-7-9-18 TGT
5	6010.0	13.88	135.33	5870.0	-844.5	834.8	0.00	0.00	1187.5	

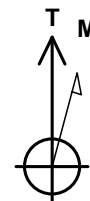


Received: September 20, 2012

API Well Number: 43013517340000



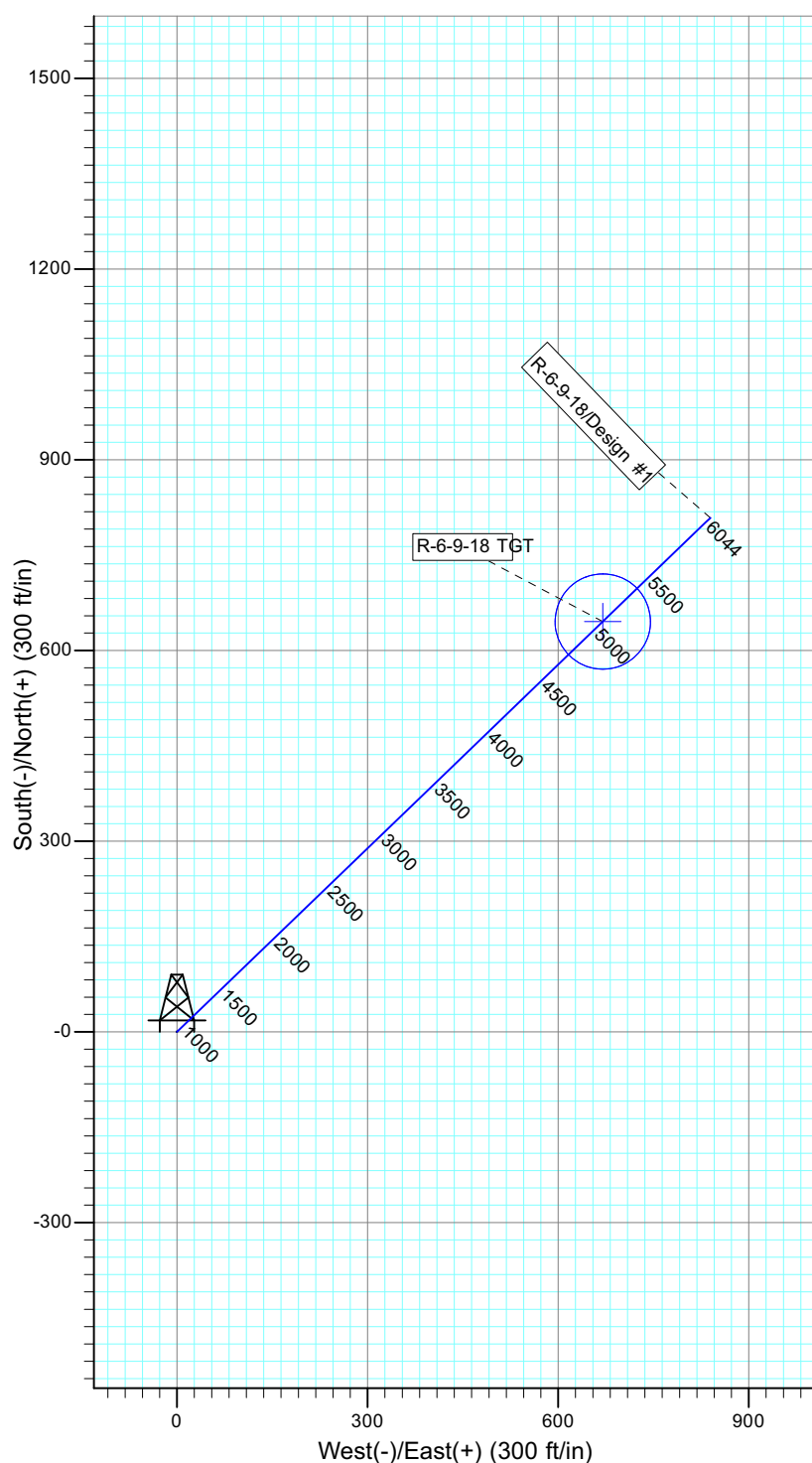
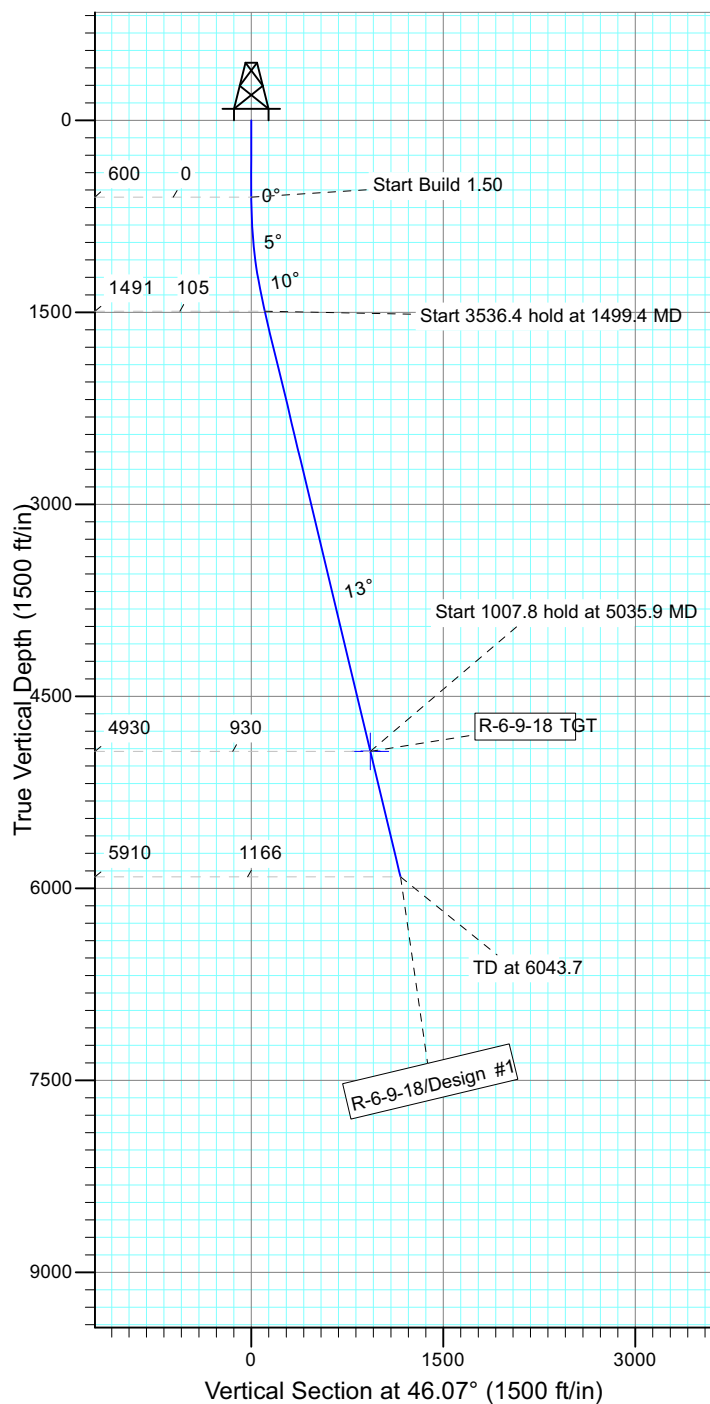
Project: USGS Myton SW (UT)  
 Site: SECTION 6 T9, R18E  
 Well: R-6-9-18  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.13°

Magnetic Field  
 Strength: 52191.1snT  
 Dip Angle: 65.80°  
 Date: 7/10/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
R-6-9-18 TGT	4930.0	645.5	670.1	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1499.4	13.49	46.07	1491.2	73.1	75.9	1.50	46.07	105.4	
4	5035.9	13.49	46.07	4930.0	645.5	670.1	0.00	0.00	930.5	R-6-9-18 TGT
5	6043.7	13.49	46.07	5910.0	808.7	839.5	0.00	0.00	1165.6	



Received: September 20, 2012

API Well Number: 43013517340000



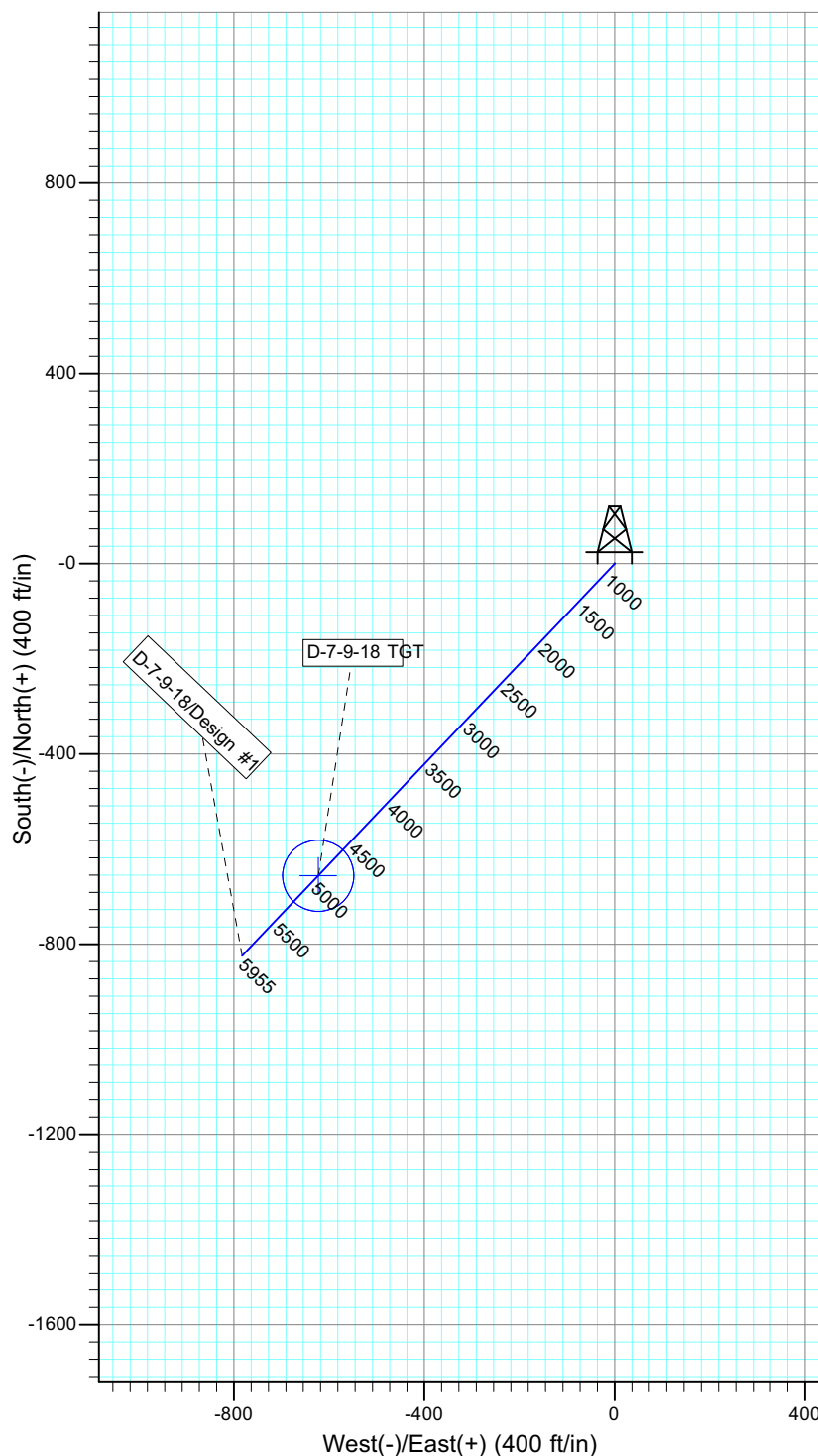
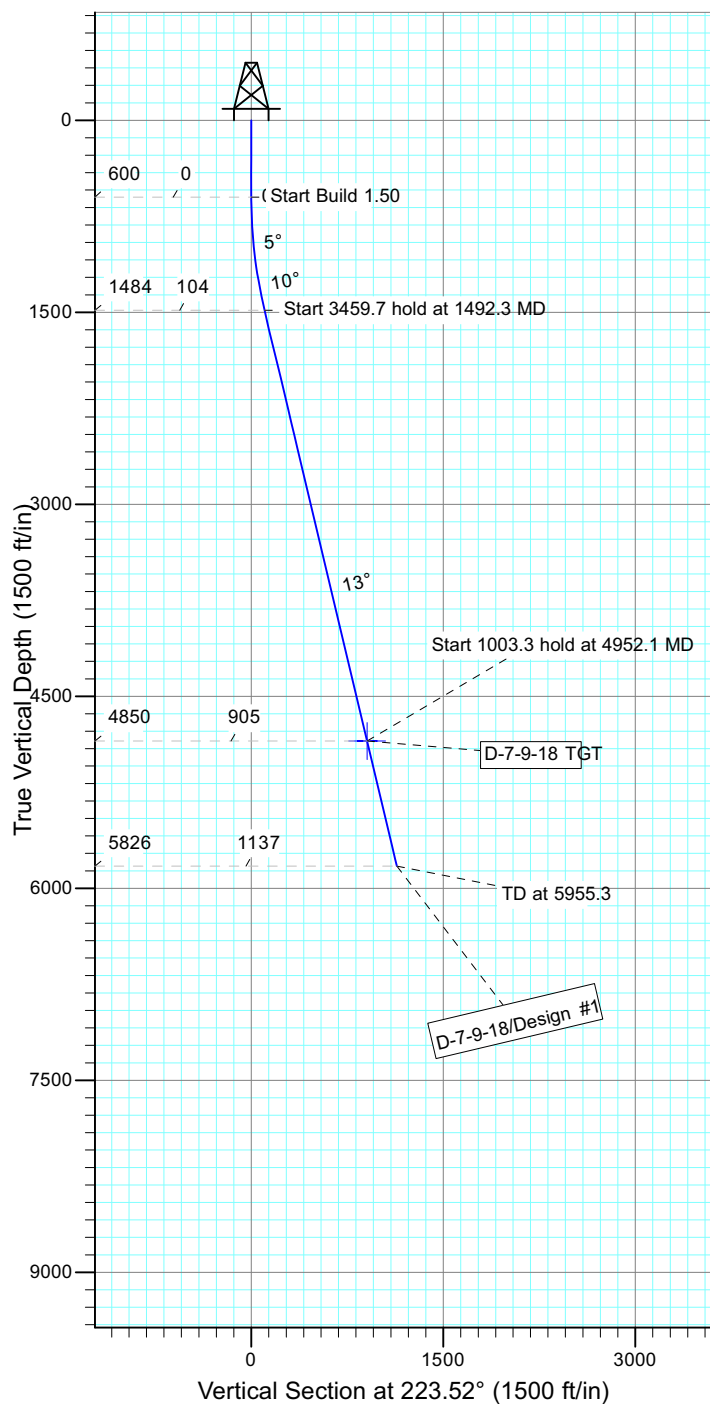
Project: USGS Myton SW (UT)  
 Site: SECTION 6 T9, R18E  
 Well: D-7-9-18  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.13°

Magnetic Field  
 Strength: 52191.1snT  
 Dip Angle: 65.80°  
 Date: 7/10/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
D-7-9-18 TGT	4850.0	-656.0	-623.0	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1492.3	13.39	223.52	1484.2	-75.2	-71.4	1.50	223.52	103.8	
4	4952.1	13.39	223.52	4850.0	-656.0	-623.0	0.00	0.00	904.7	D-7-9-18 TGT
5	5955.3	13.39	223.52	5826.0	-824.4	-782.9	0.00	0.00	1136.9	



Received: September 20, 2012



API Well Number: 43013517340000



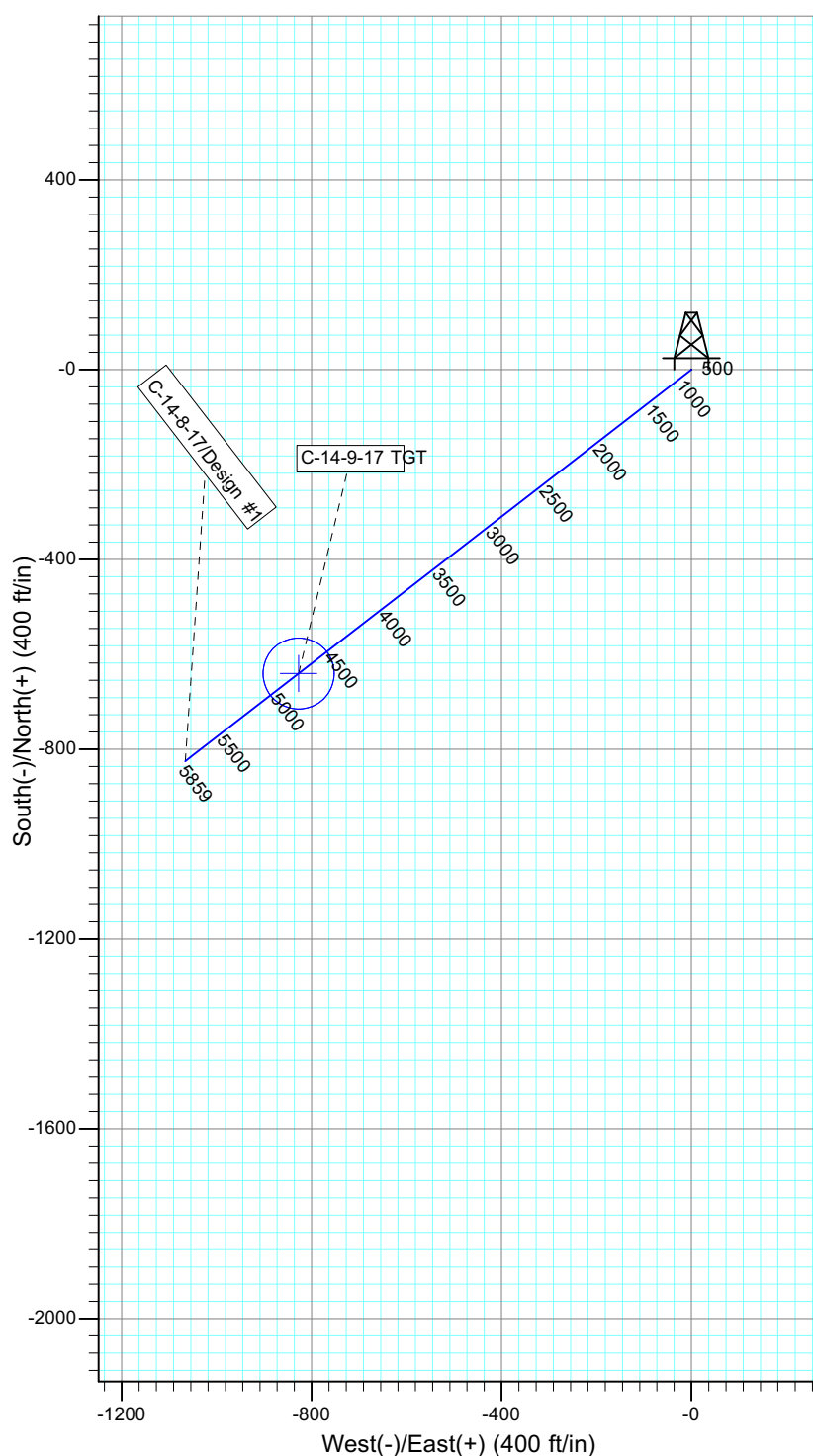
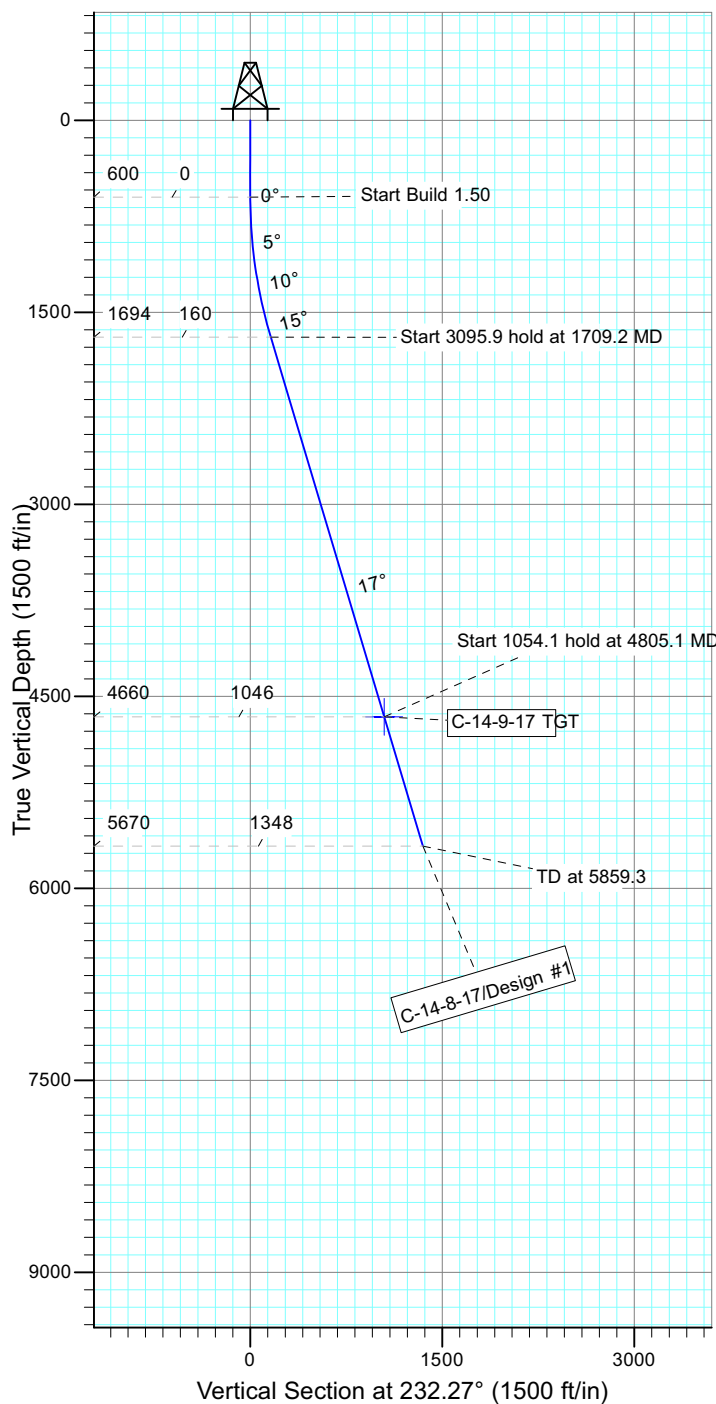
Project: USGS Myton SW (UT)  
 Site: SECTION 11 T9S, R17E  
 Well: C-14-8-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.14°

Magnetic Field  
 Strength: 52178.3snT  
 Dip Angle: 65.78°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
C-14-9-17 TGT	4660.0	-640.3	-827.6	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1709.2	16.64	232.27	1693.7	-97.9	-126.5	1.50	232.27	159.9	
4	4805.1	16.64	232.27	4660.0	-640.3	-827.6	0.00	0.00	1046.4	C-14-9-17 TGT
5	5859.3	16.64	232.27	5670.0	-825.0	-1066.3	0.00	0.00	1348.2	



Received: September 20, 2012

API Well Number: 43013517340000



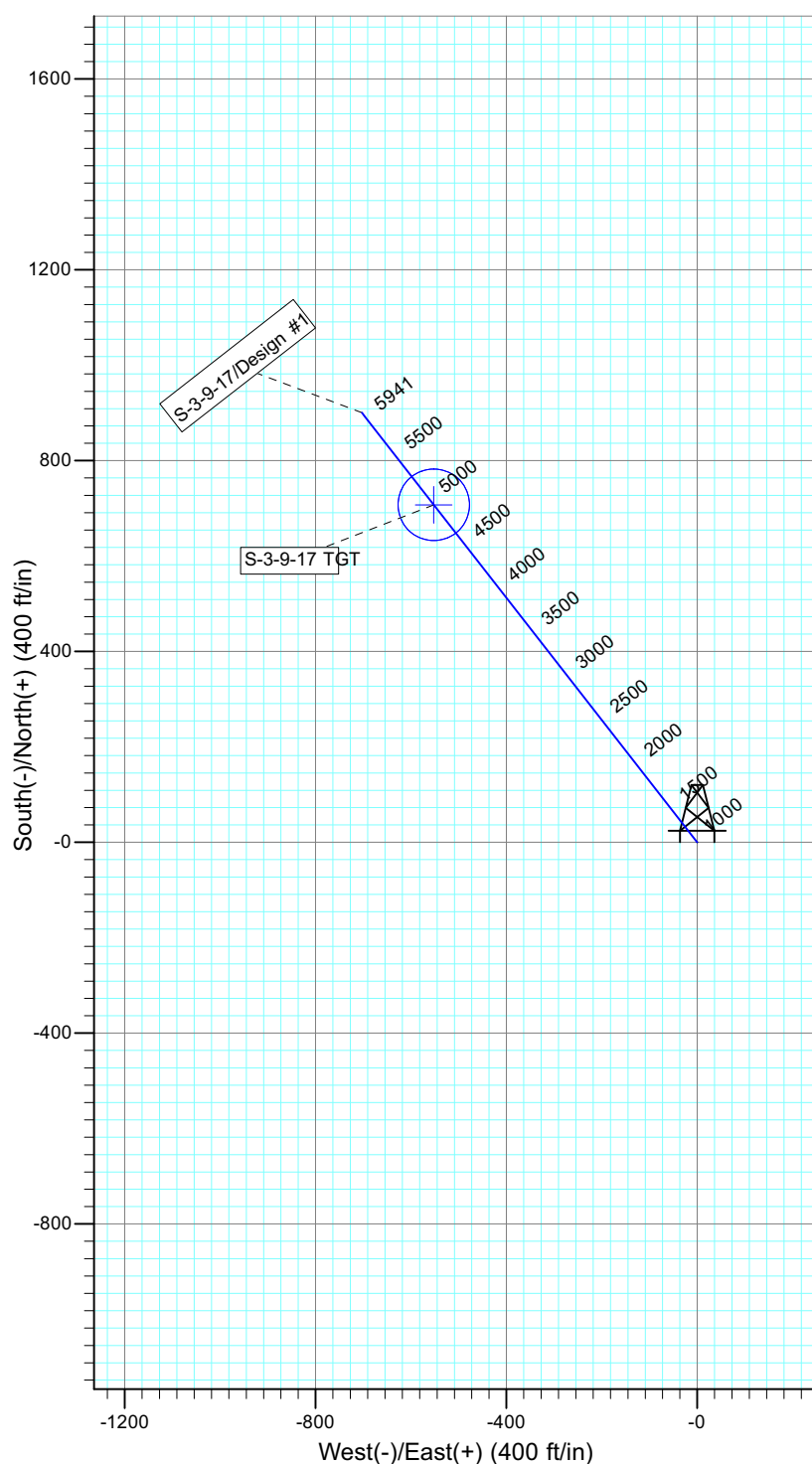
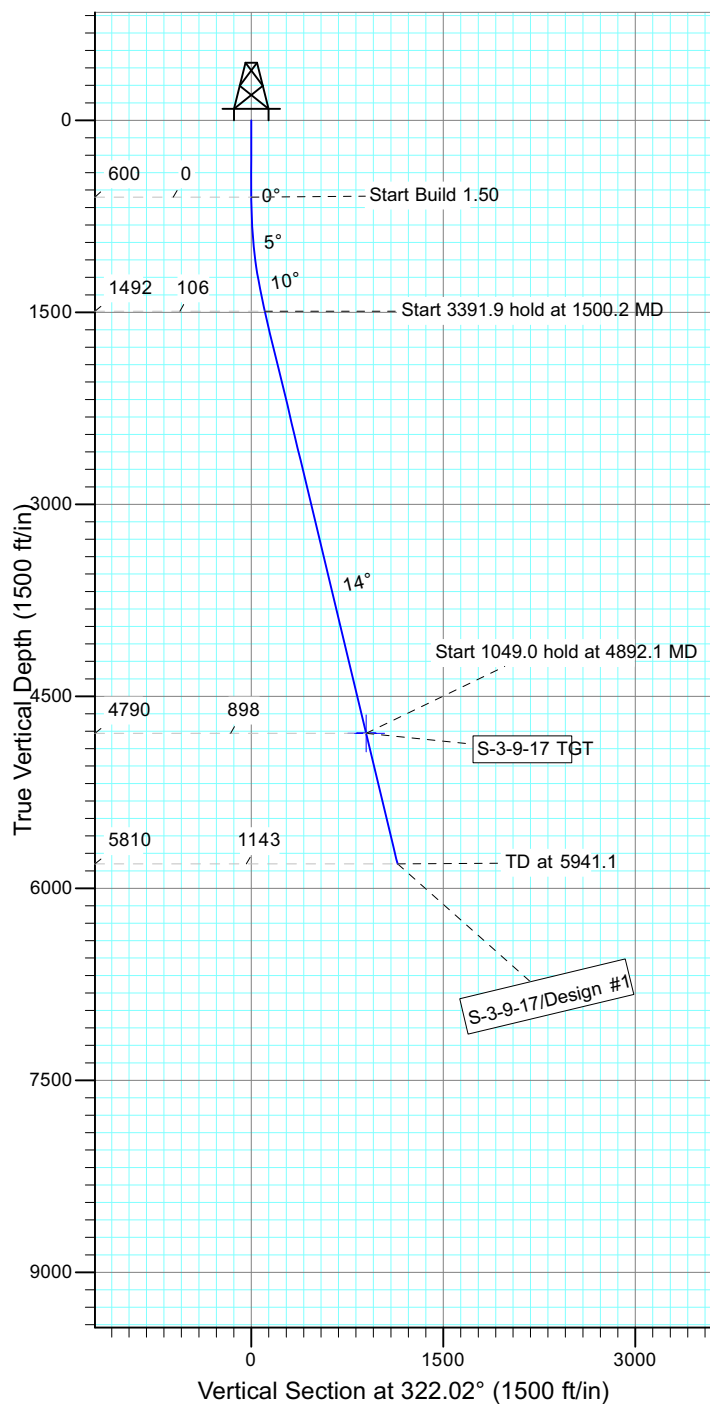
Project: USGS Myton SW (UT)  
 Site: SECTION 3 T9S, R17E  
 Well: S-3-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.15°

Magnetic Field  
 Strength: 52184.3snT  
 Dip Angle: 65.79°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
S-3-9-17 TGT	4790.0	707.5	-552.4	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1500.2	13.50	322.02	1491.9	83.2	-65.0	1.50	322.02	105.6	
4	4892.1	13.50	322.02	4790.0	707.5	-552.4	0.00	0.00	897.6	S-3-9-17 TGT
5	5941.1	13.50	322.02	5810.0	900.6	-703.1	0.00	0.00	1142.5	



Received: September 20, 2012

API Well Number: 43013517340000



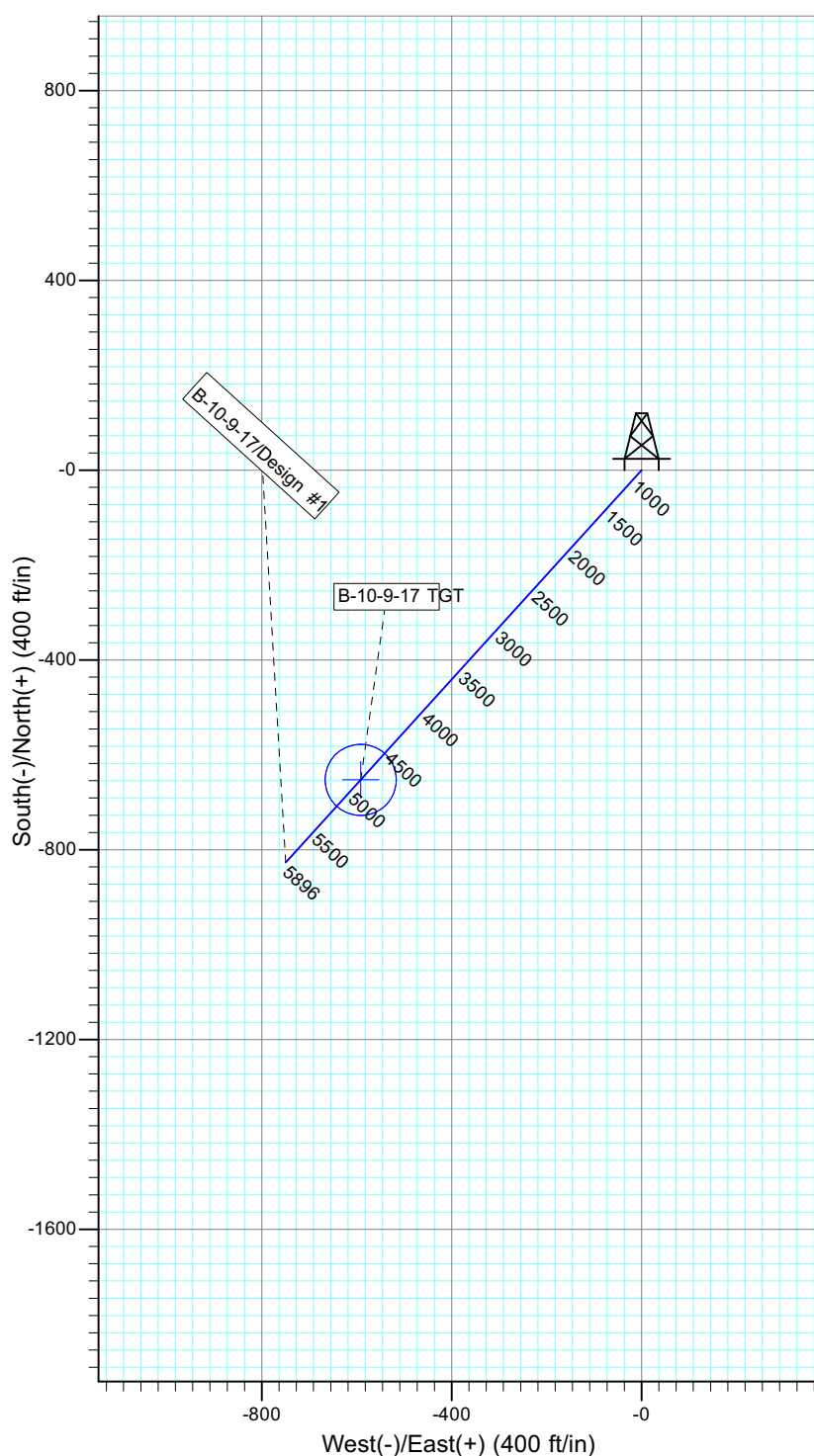
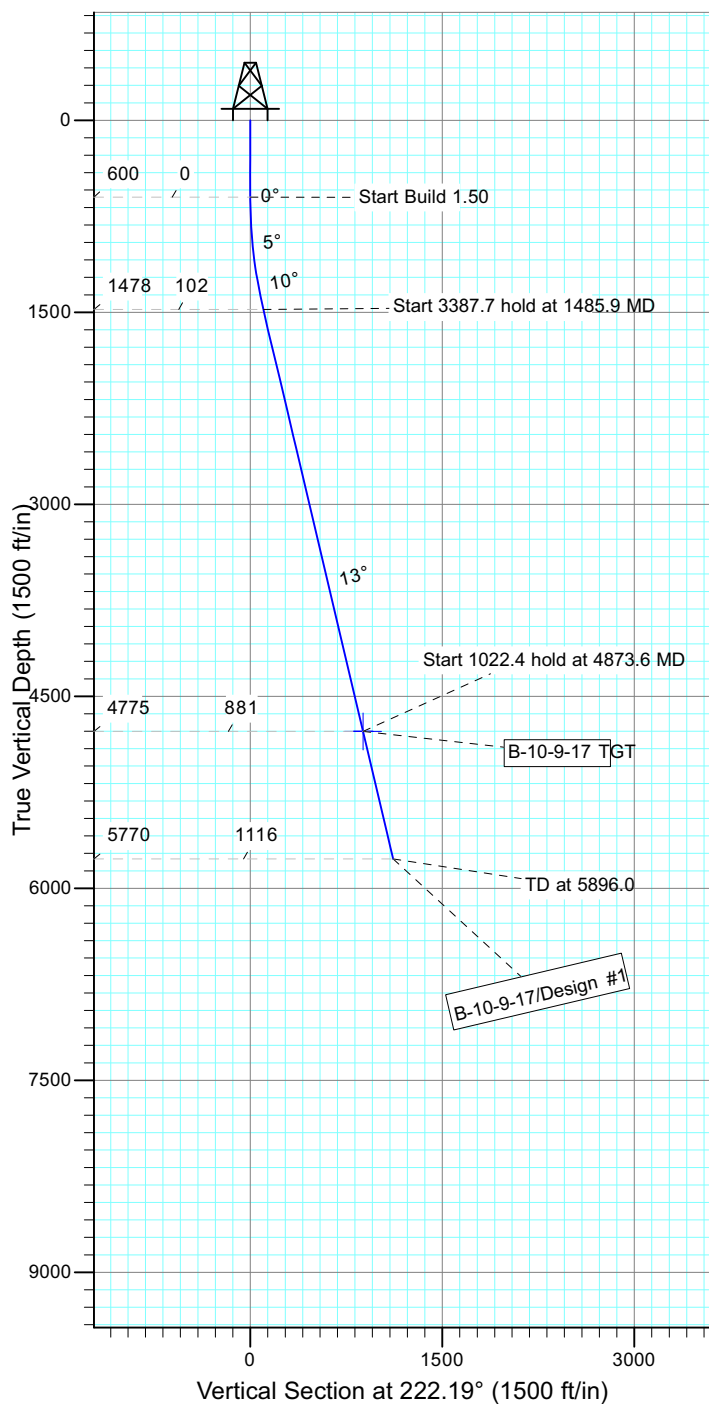
Project: USGS Myton SW (UT)  
 Site: SECTION 3 T9S, R17E  
 Well: B-10-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.15°

Magnetic Field  
 Strength: 52184.3snT  
 Dip Angle: 65.79°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
B-10-9-17 TGT	4775.0	-652.7	-591.7	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1485.9	13.29	222.19	1478.0	-75.8	-68.7	1.50	222.19	102.3	
4	4873.6	13.29	222.19	4775.0	-652.7	-591.7	0.00	0.00	881.0	B-10-9-17 TGT
5	5896.0	13.29	222.19	5770.0	-826.9	-749.5	0.00	0.00	1116.0	

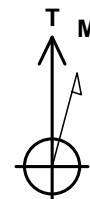


Received: September 20, 2012

API Well Number: 43013517340000



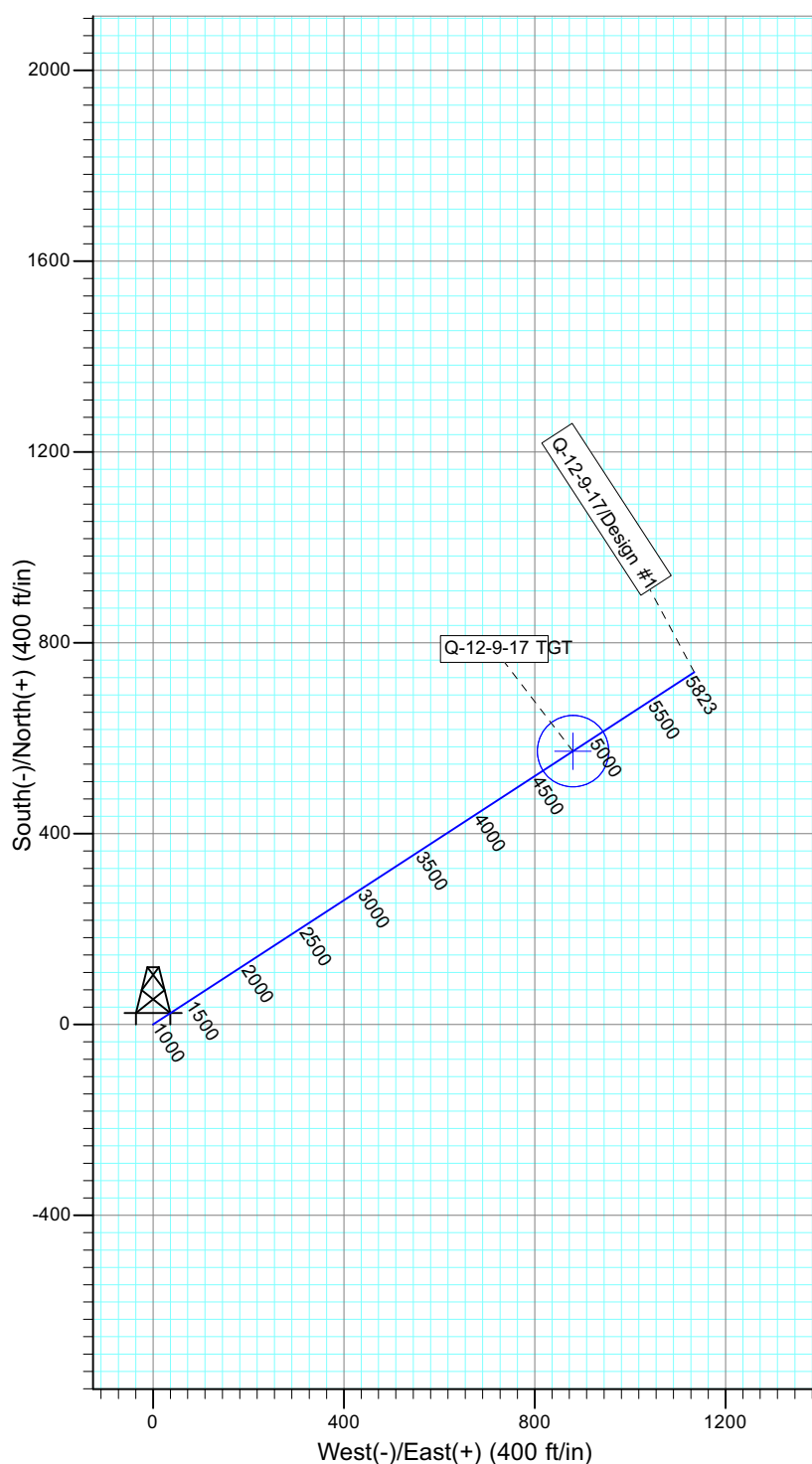
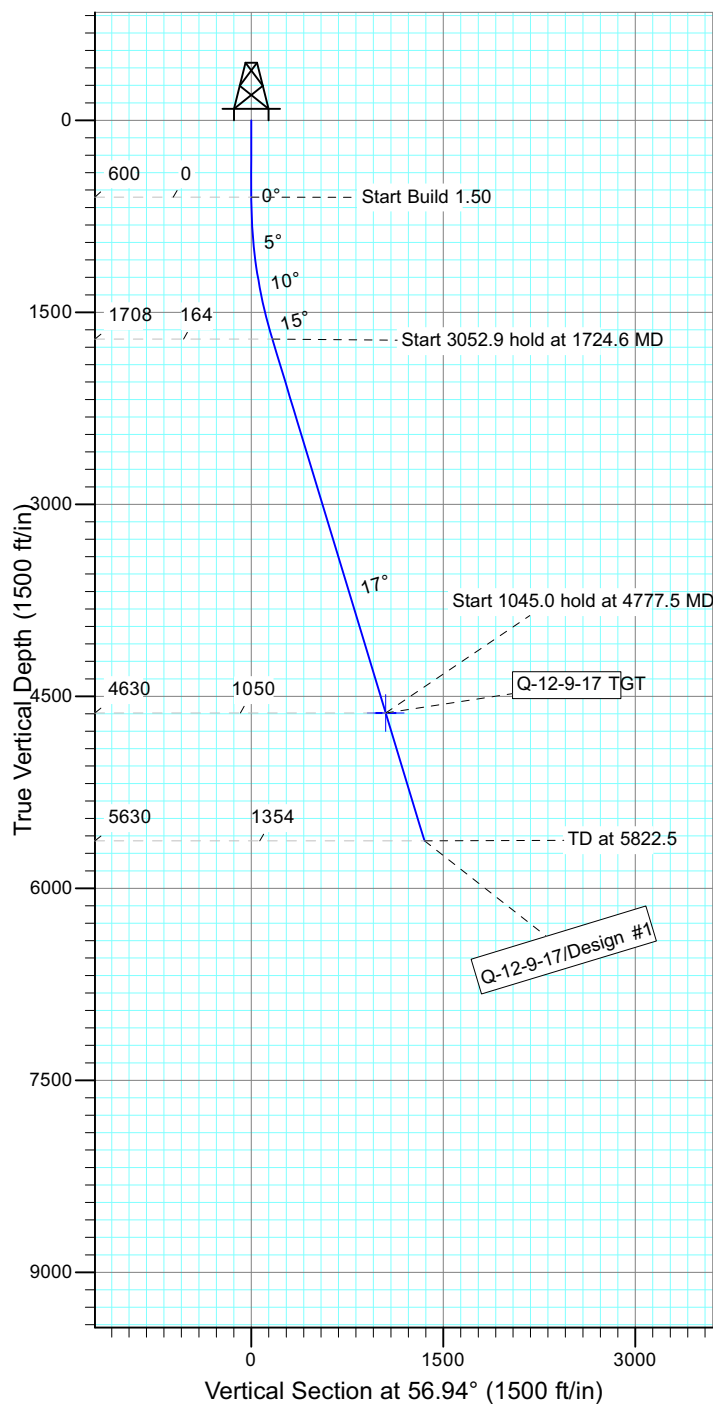
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 Site: SECTION 12 TS9 R17E  
 Well: Q-12-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.14°

Magnetic Field  
 Strength: 52179.6snT  
 Dip Angle: 65.78°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Q-12-9-17 TGT	4630.0	572.9	880.3	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1724.6	16.87	56.94	1708.4	89.7	137.8	1.50	56.94	164.4	
4	4777.5	16.87	56.94	4630.0	572.9	880.3	0.00	0.00	1050.3	Q-12-9-17 TGT
5	5822.5	16.87	56.94	5630.0	738.3	1134.4	0.00	0.00	1353.5	

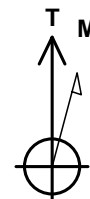


Received: September 20, 2012

API Well Number: 43013517340000



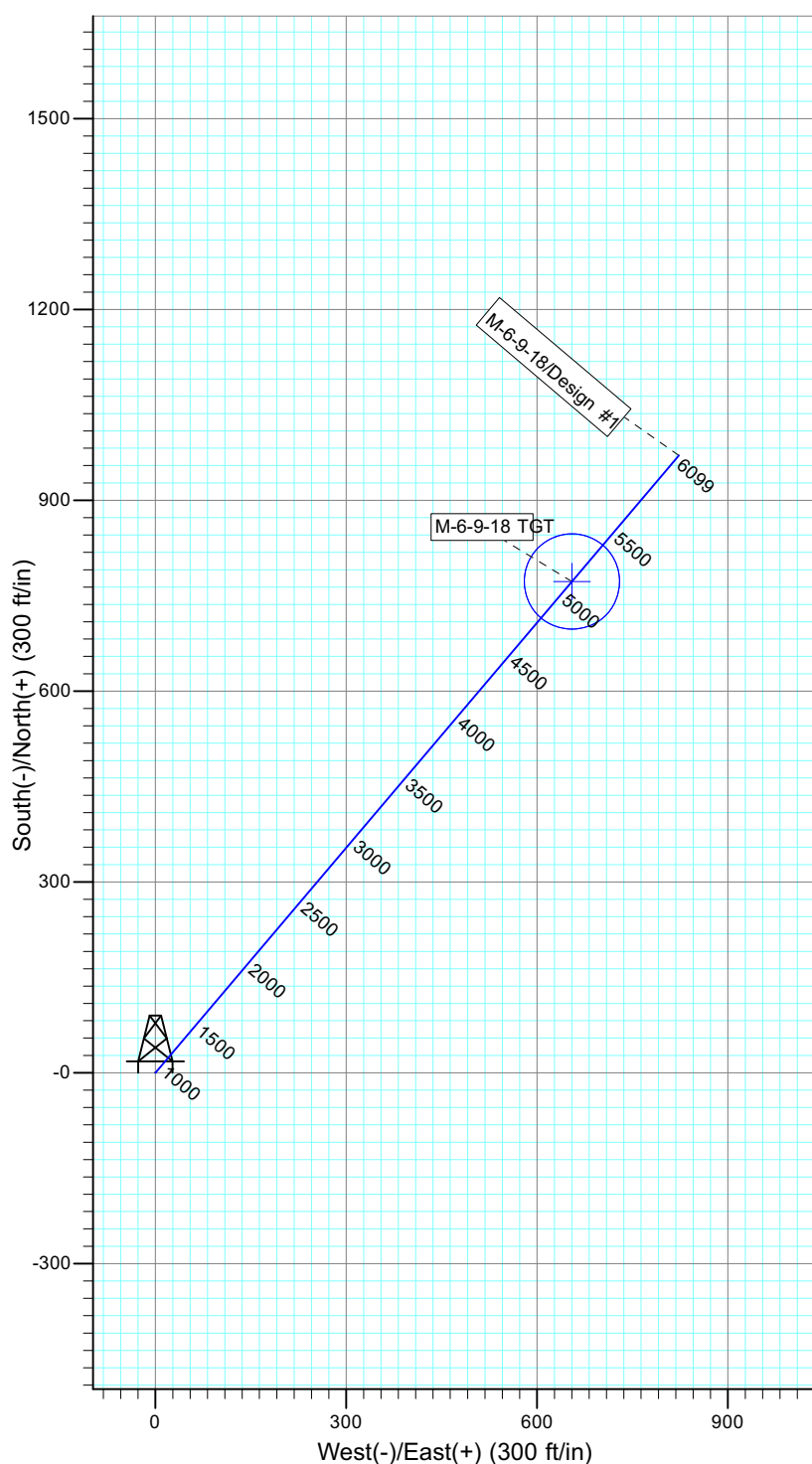
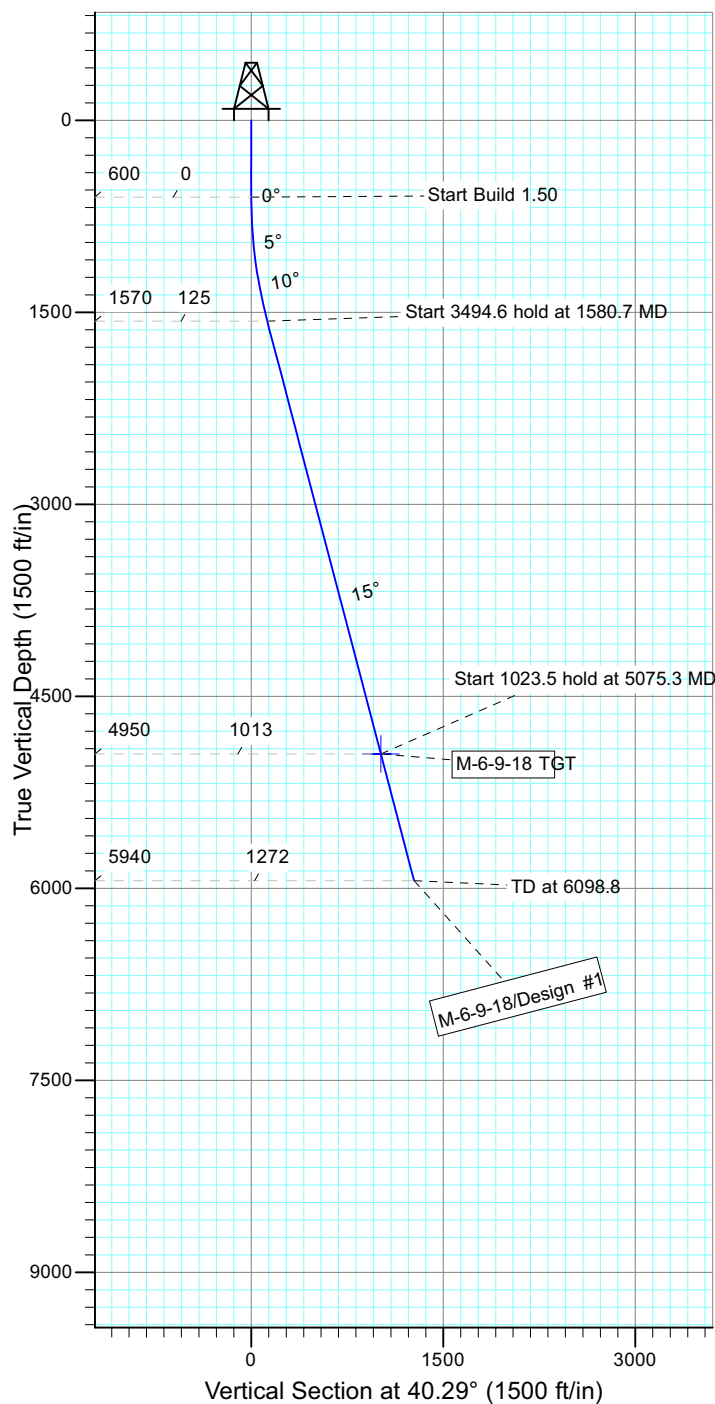
Project: USGS Myton SW (UT)  
 Site: SECTION 6 T9, R18E  
 Well: M-6-9-18  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.13°

Magnetic Field  
 Strength: 52193.2snT  
 Dip Angle: 65.80°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
M-6-9-18 TGT	4950.0	772.3	654.8	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1580.7	14.71	40.29	1569.9	95.5	81.0	1.50	40.29	125.2	
4	5075.3	14.71	40.29	4950.0	772.3	654.8	0.00	0.00	1012.6	M-6-9-18 TGT
5	6098.8	14.71	40.29	5940.0	970.6	822.9	0.00	0.00	1272.5	

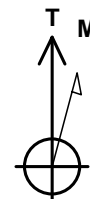


Received: September 21, 2012

API Well Number: 43013517340000



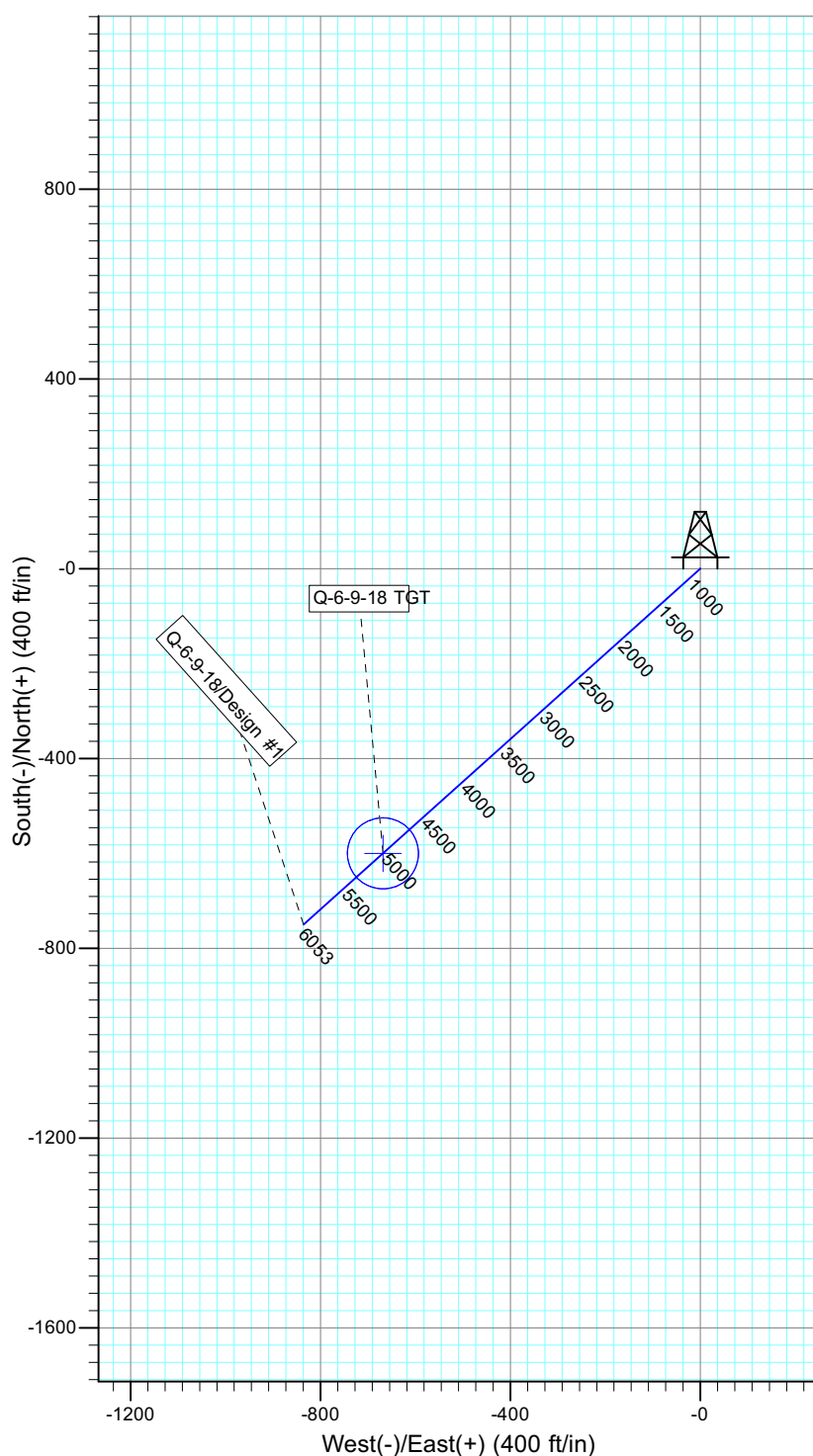
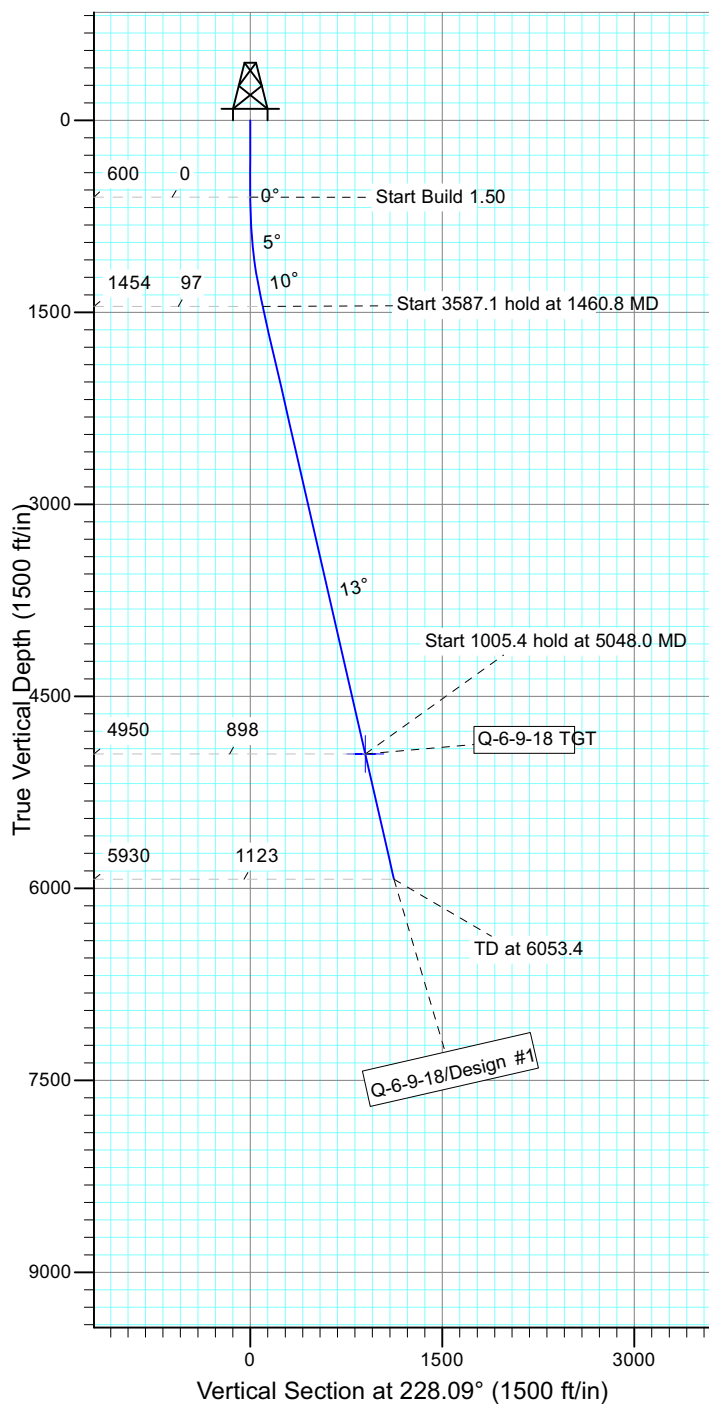
Project: USGS Myton SW (UT)  
 Site: SECTION 6 T9, R18E  
 Well: Q-6-9-18  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.13°

Magnetic Field  
 Strength: 52193.2snT  
 Dip Angle: 65.80°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Q-6-9-18 TGT	4950.0	-600.0	-668.4	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1460.8	12.91	228.09	1453.6	-64.5	-71.9	1.50	228.09	96.6	
4	5048.0	12.91	228.09	4950.0	-600.0	-668.4	0.00	0.00	898.2	Q-6-9-18 TGT
5	6053.4	12.91	228.09	5930.0	-750.0	-835.6	0.00	0.00	1122.9	



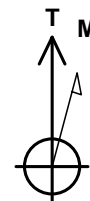
Received: September 21, 2012



API Well Number: 43013517340000



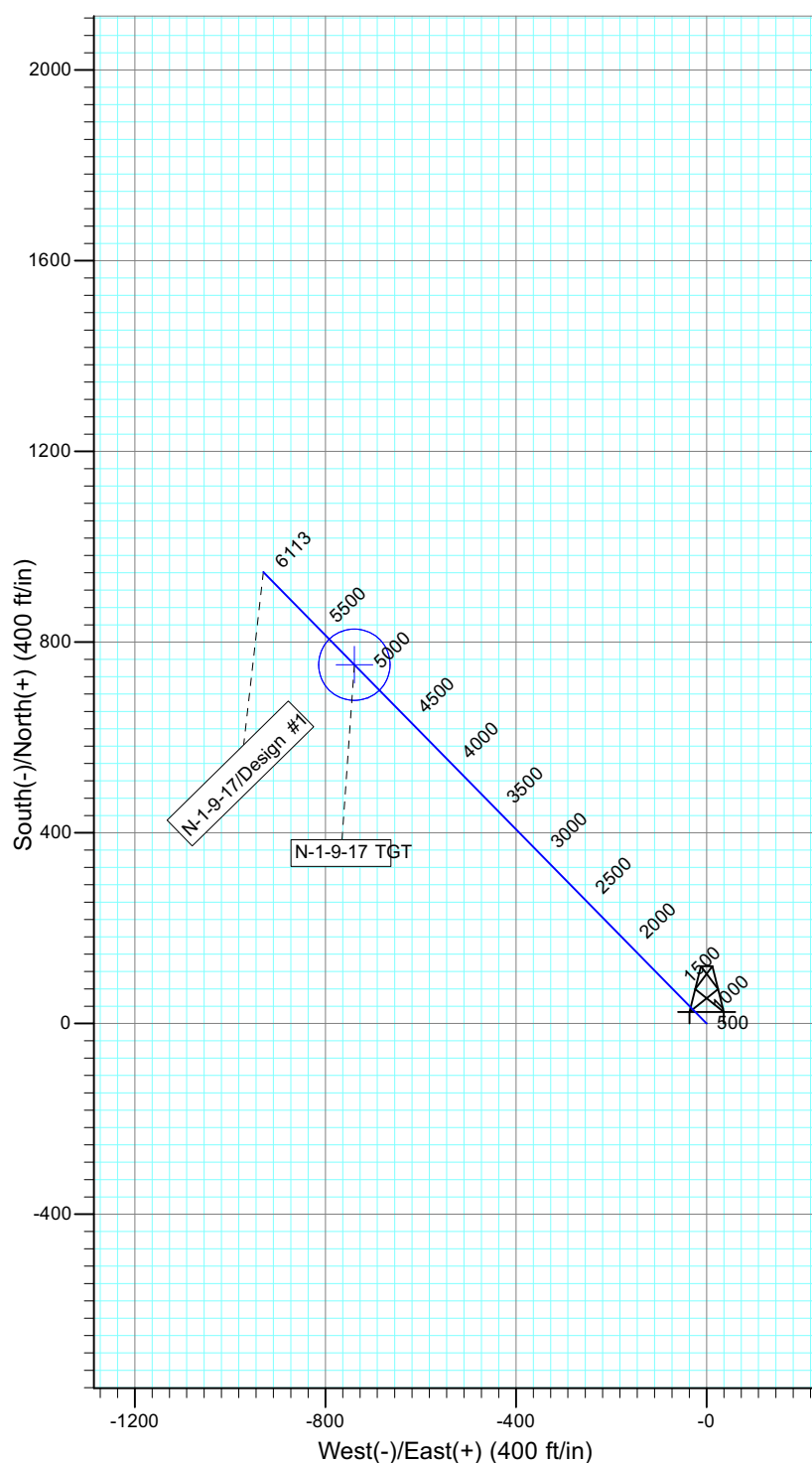
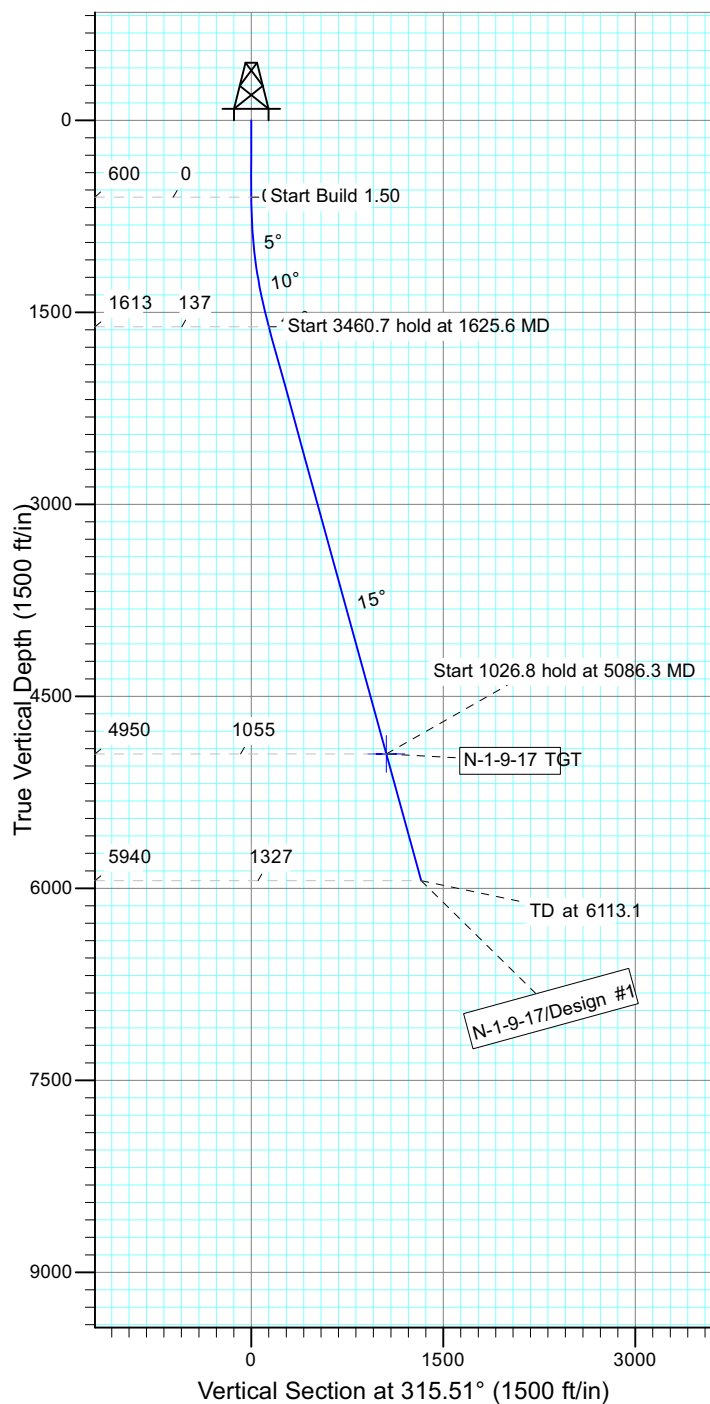
Project: USGS Myton SW (UT)  
 Site: SECTION 1 T9S, 17E  
 Well: N-1-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.14°

Magnetic Field  
 Strength: 52190.6snT  
 Dip Angle: 65.80°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 1000'  
 DOGLEG RATE 3 DEG/100'



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
N-1-9-17 TGT	4950.0	752.6	-739.3	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1625.6	15.38	315.51	1613.3	97.6	-95.9	1.50	315.51	136.9	
4	5086.3	15.38	315.51	4950.0	752.6	-739.3	0.00	0.00	1054.9	N-1-9-17 TGT
5	6113.1	15.38	315.51	5940.0	946.9	-930.2	0.00	0.00	1327.3	

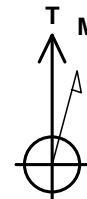


Received: September 21, 2012

API Well Number: 43013517340000



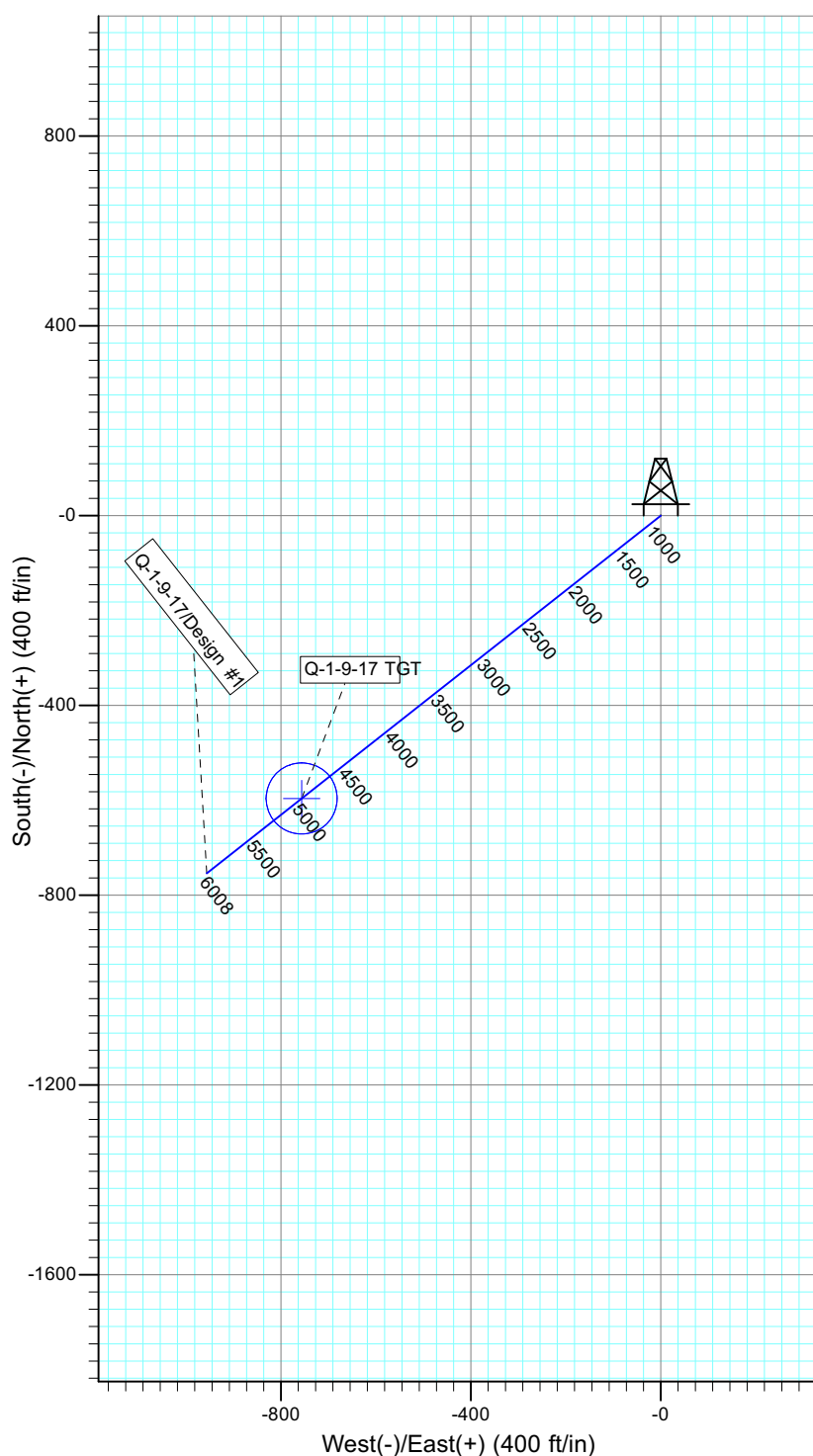
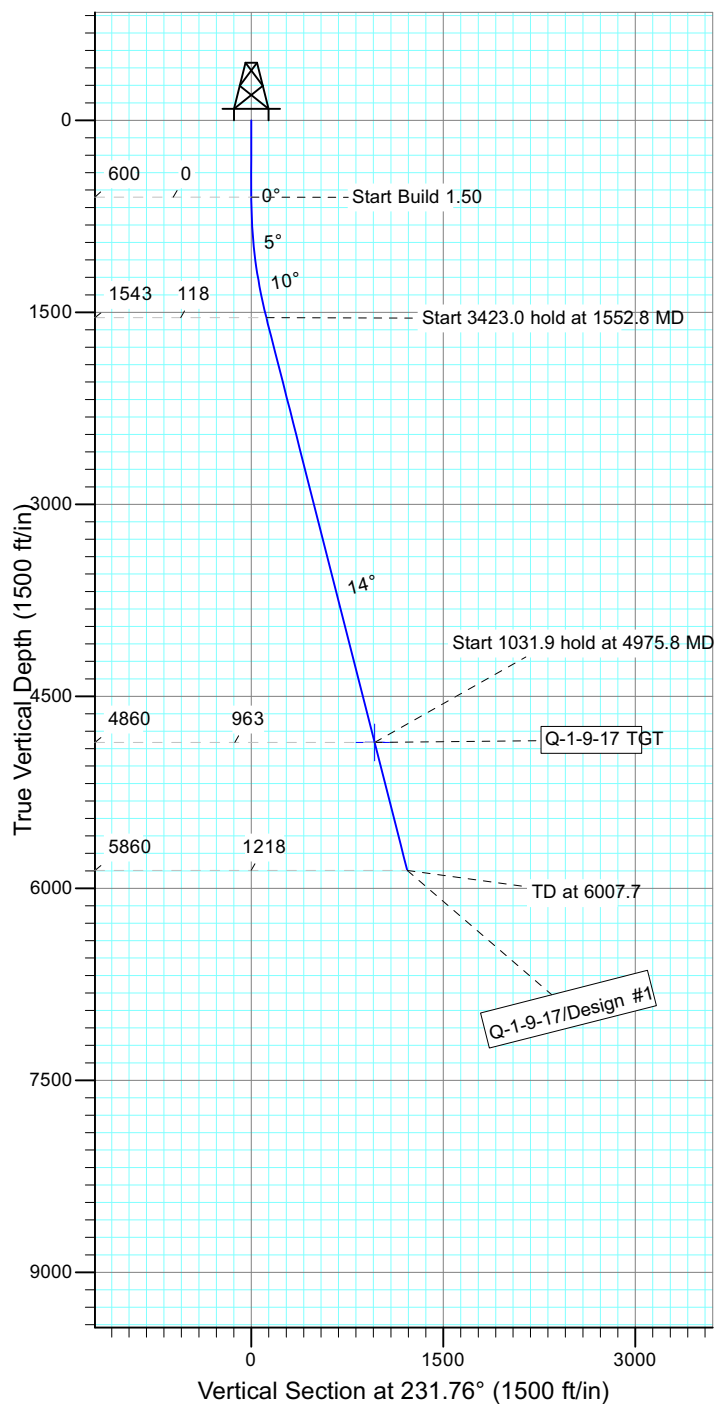
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 Site: SECTION 1 T9S, 17E  
 Well: Q-1-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.14°

Magnetic Field  
 Strength: 52190.7snT  
 Dip Angle: 65.80°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Q-1-9-17 TGT	4860.0	-596.2	-756.6	Circle (Radius: 75.0)

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1552.8	14.29	231.76	1543.0	-73.2	-92.9	1.50	231.76	118.2	
4	4975.8	14.29	231.76	4860.0	-596.2	-756.6	0.00	0.00	963.2	Q-1-9-17 TGT
5	6007.7	14.29	231.76	5860.0	-753.9	-956.6	0.00	0.00	1218.0	

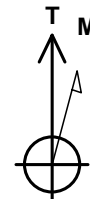


Received: September 21, 2012

API Well Number: 43013517340000



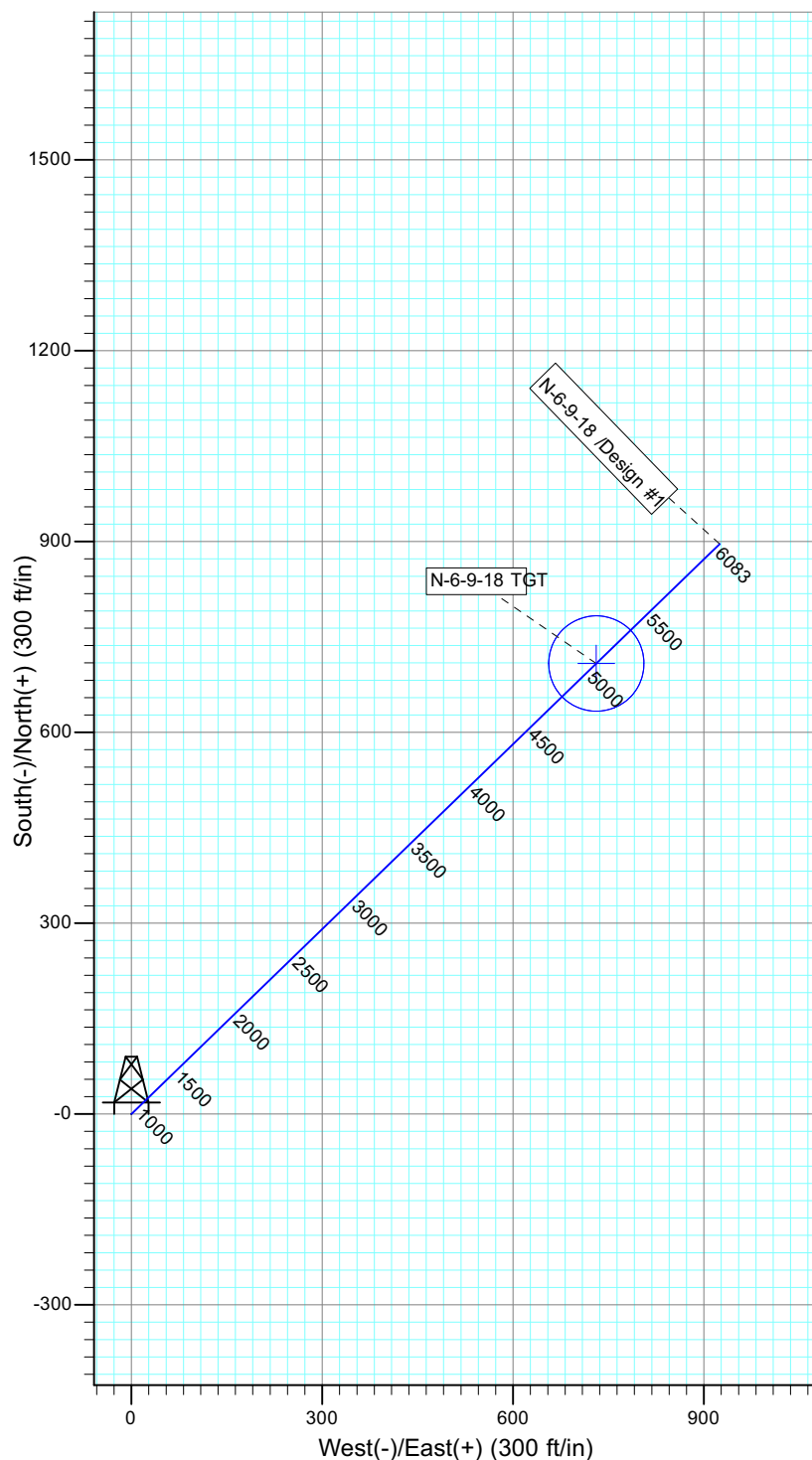
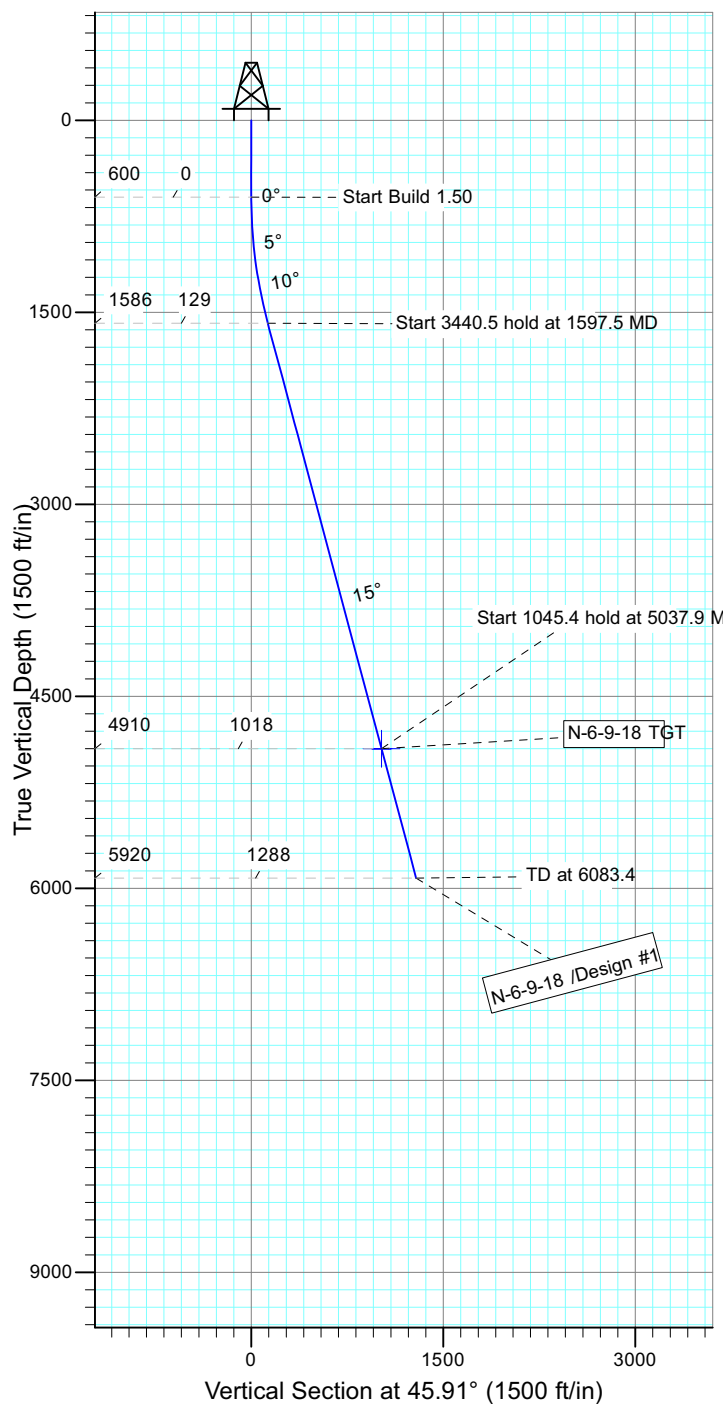
Project: USGS Myton SW (UT)  
 Site: SECTION 6 T9, R18E  
 Well: N-6-9-18  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.13°

Magnetic Field  
 Strength: 52192.5snT  
 Dip Angle: 65.80°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
N-6-9-18 TGT	4910.0	708.2	731.0	Circle (Radius: 75.0)

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1597.5	14.96	45.91	1586.2	90.1	93.0	1.50	45.91	129.5	
4	5037.9	14.96	45.91	4910.0	708.2	731.0	0.00	0.00	1017.8	N-6-9-18 TGT
5	6083.4	14.96	45.91	5920.0	896.0	924.8	0.00	0.00	1287.7	



Received: September 21, 2012

API Well Number: 43013517340000



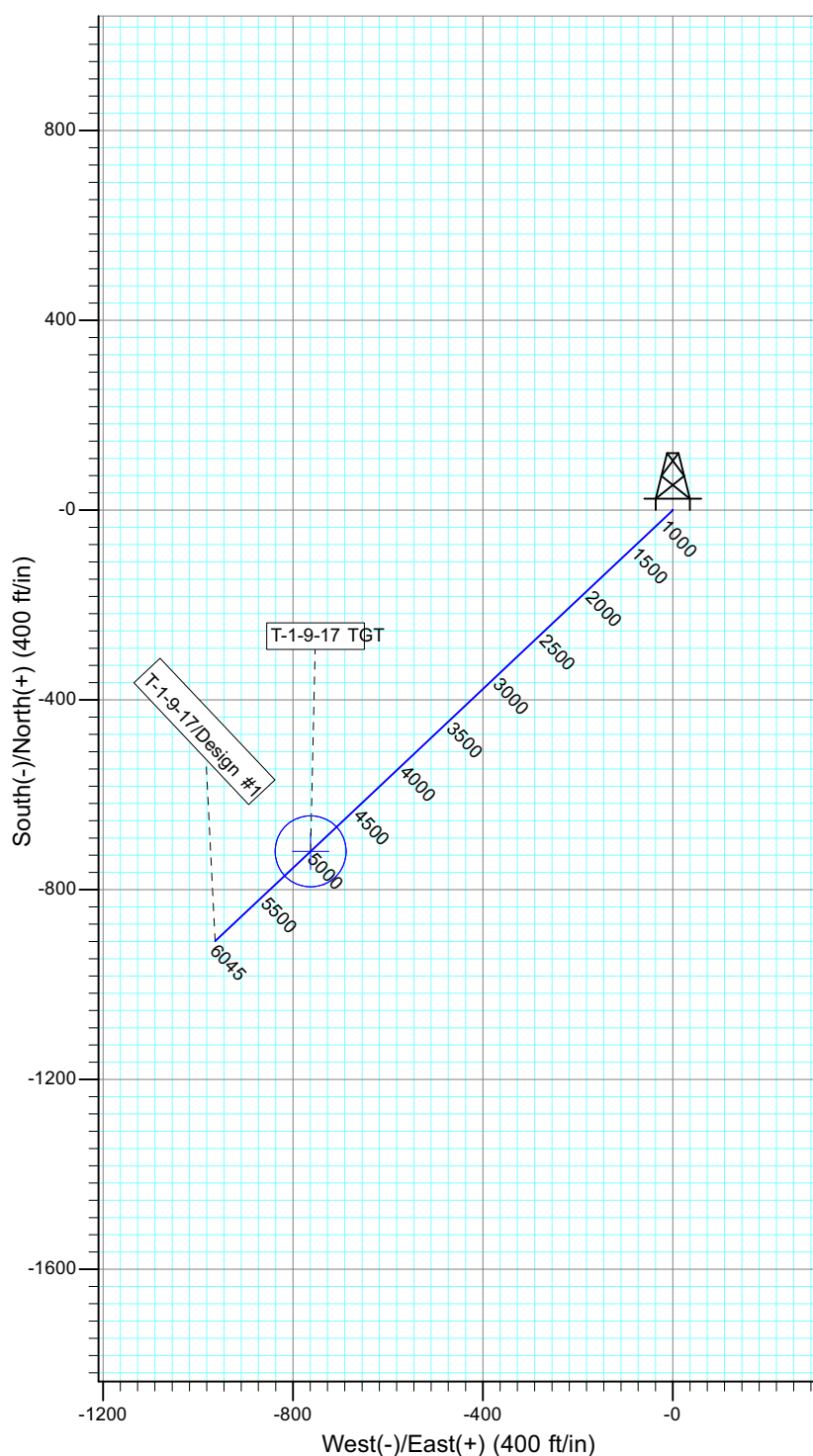
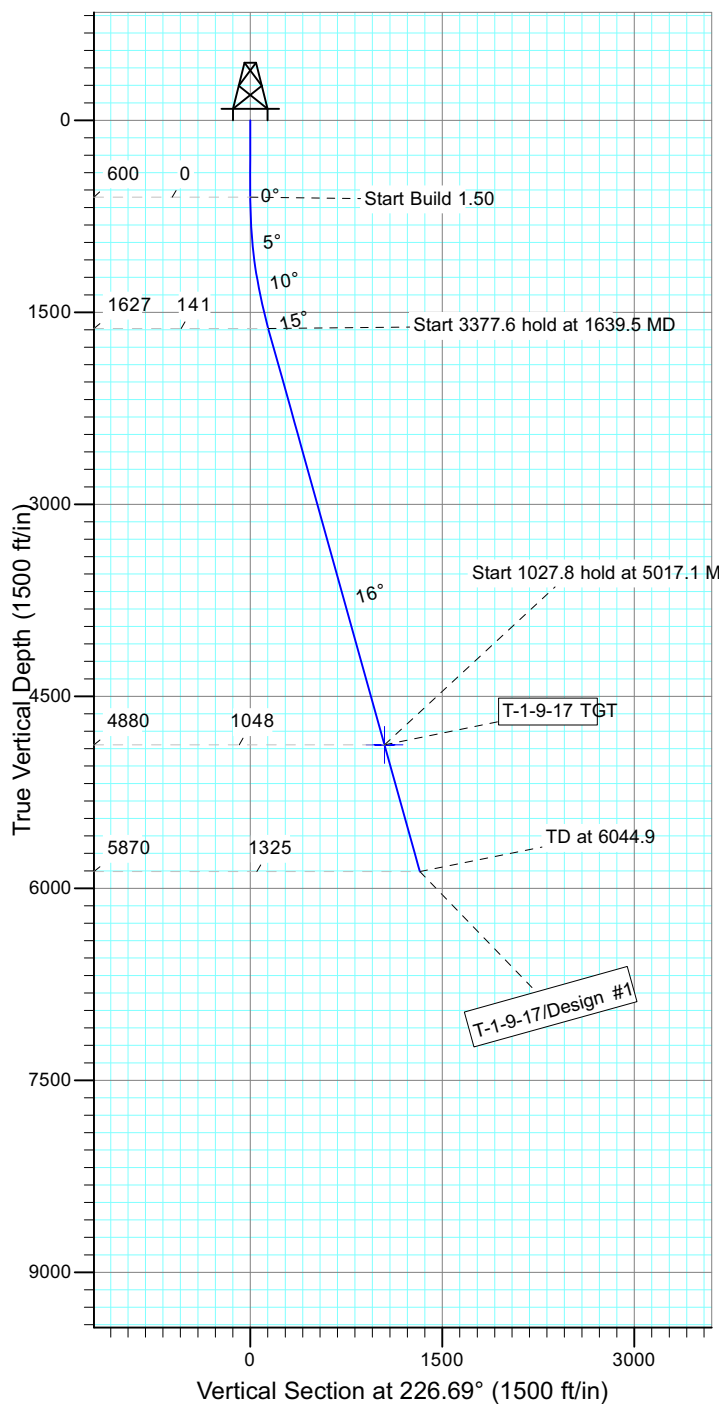
Project: USGS Myton SW (UT)  
 Site: SECTION 6 T9, R18E  
 Well: T-1-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.13°

Magnetic Field  
 Strength: 52192.5nT  
 Dip Angle: 65.80°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
T-1-9-17 TGT	4880.0	-719.2	-762.9	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1639.5	15.59	226.69	1626.7	-96.4	-102.3	1.50	226.69	140.6	
4	5017.1	15.59	226.69	4880.0	-719.2	-762.9	0.00	0.00	1048.4	T-1-9-17 TGT
5	6044.9	15.59	226.69	5870.0	-908.7	-963.9	0.00	0.00	1324.7	

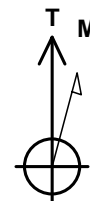


Received: September 21, 2012

API Well Number: 43013517340000



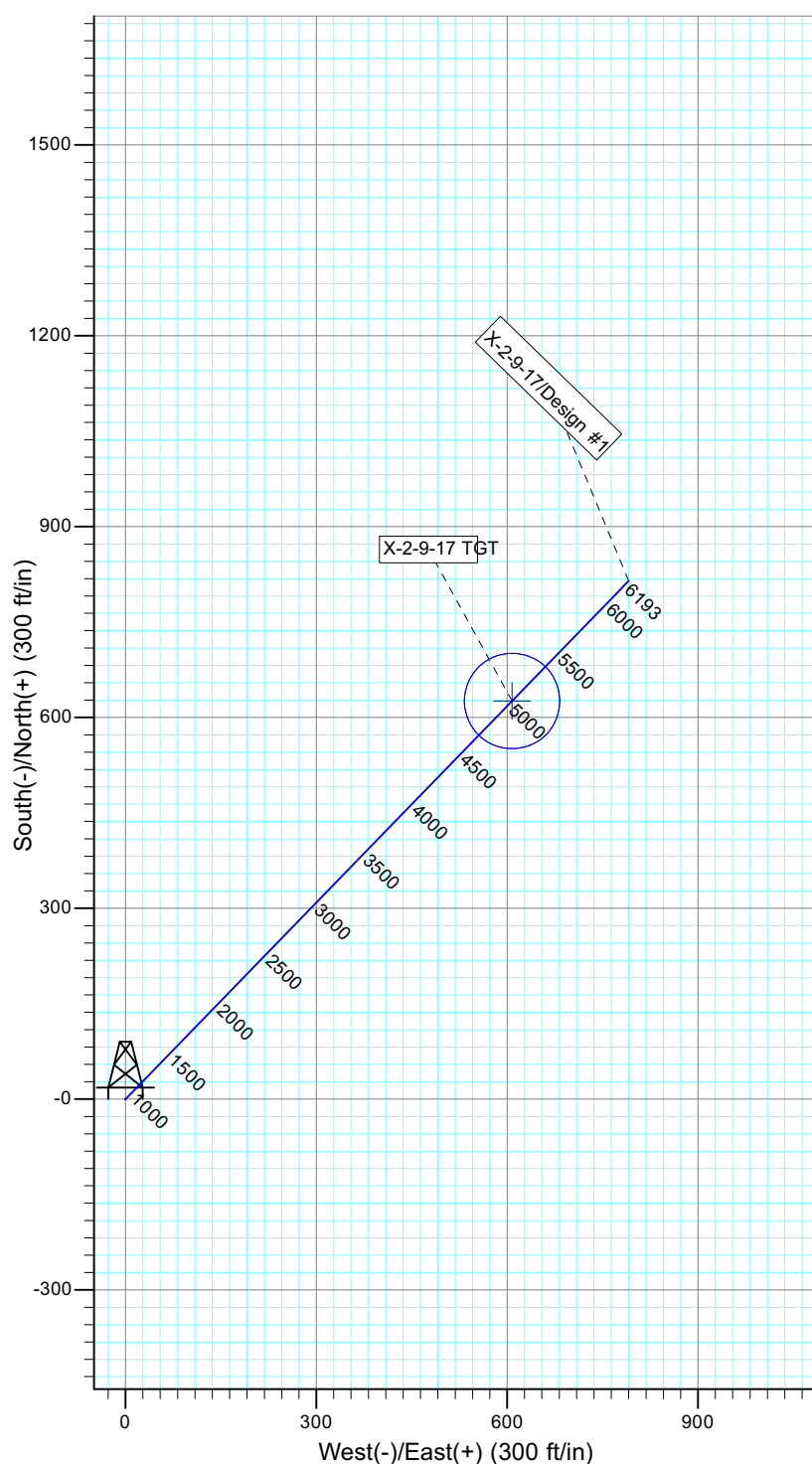
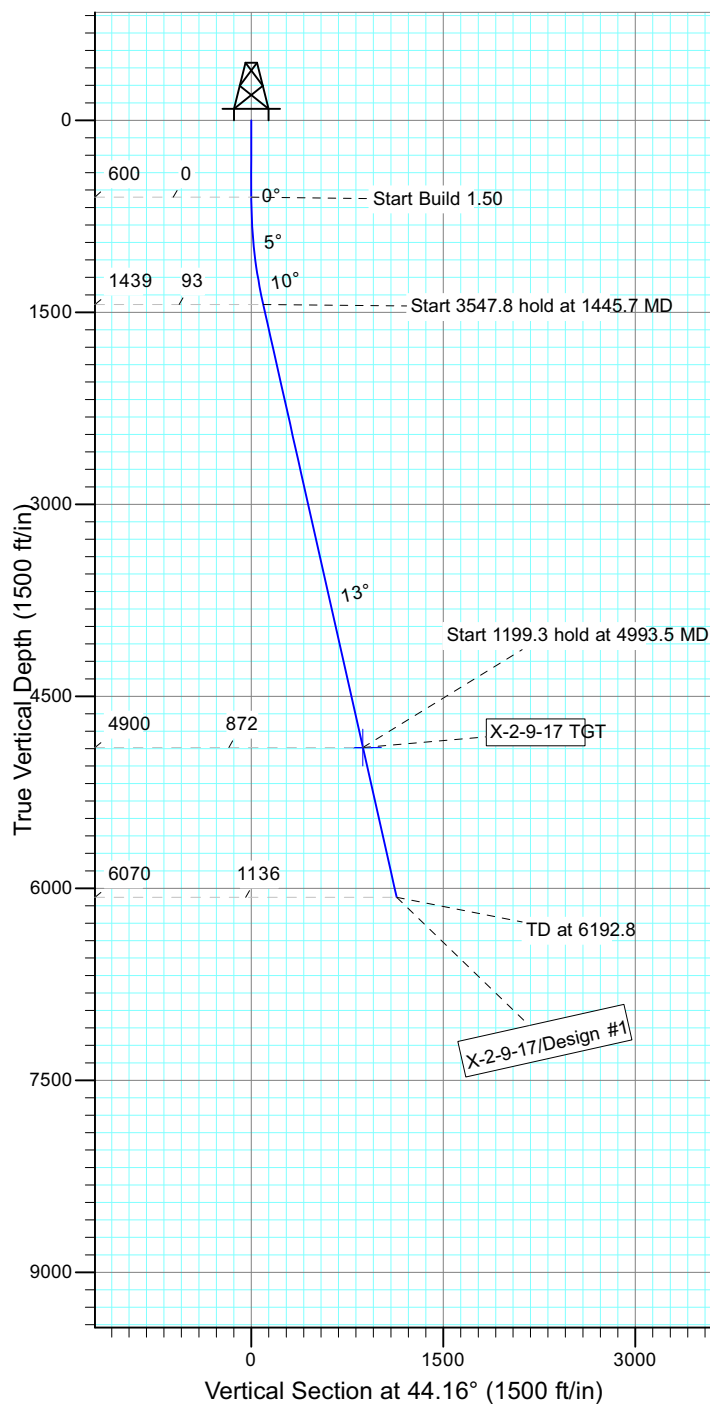
Project: USGS Myton SW (UT)  
 Site: SECTION 11 T9S, R17E  
 Well: X-2-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.14°

Magnetic Field  
 Strength: 52183.0snT  
 Dip Angle: 65.79°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
X-2-9-17 TGT	4900.0	625.8	607.7	Circle (Radius: 75.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1445.7	12.69	44.16	1438.8	66.9	65.0	1.50	44.16	93.2	
4	4993.5	12.69	44.16	4900.0	625.8	607.7	0.00	0.00	872.3	X-2-9-17 TGT
5	6192.8	12.69	44.16	6070.0	814.8	791.1	0.00	0.00	1135.7	



Received: September 21, 2012

API Well Number: 43013517340000



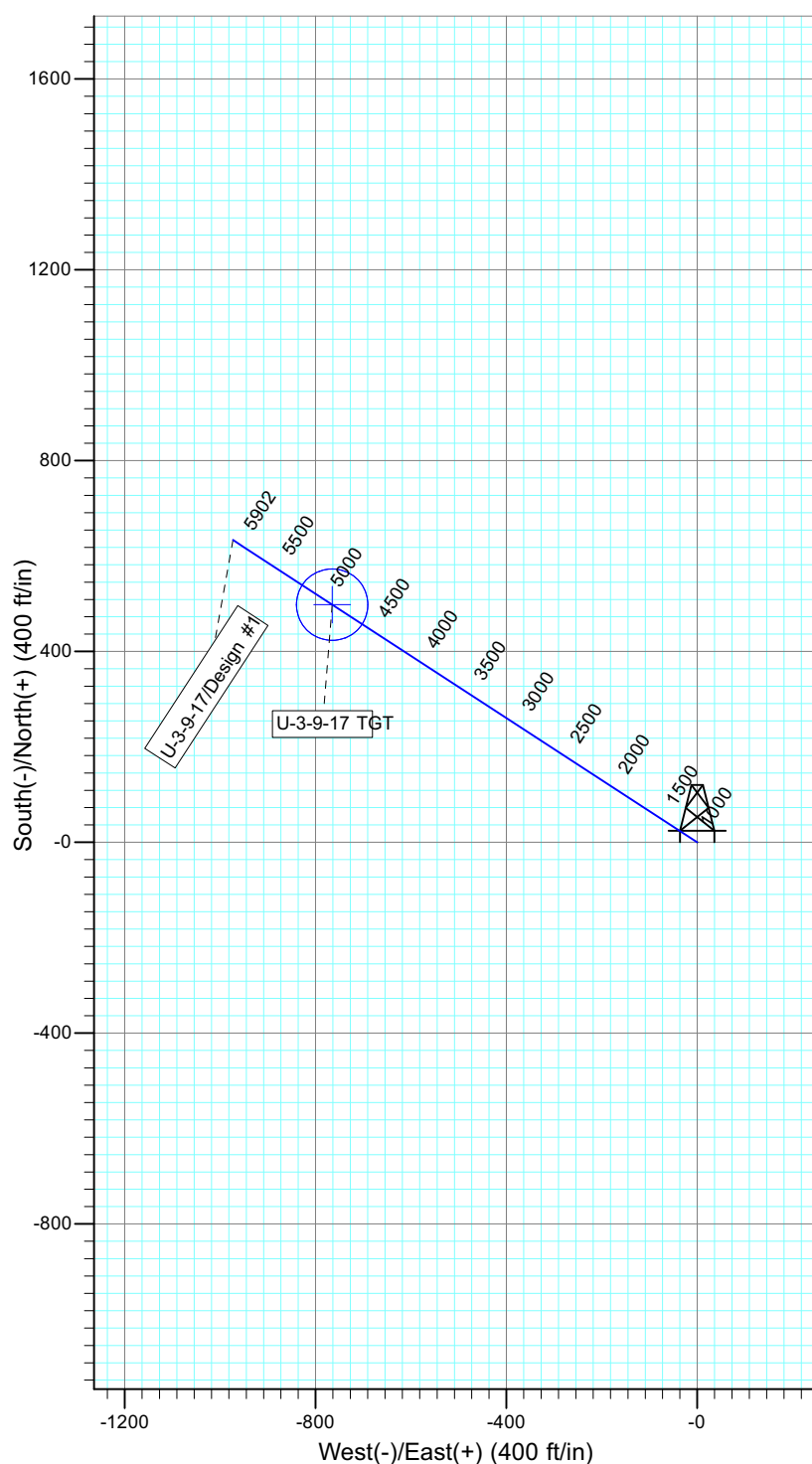
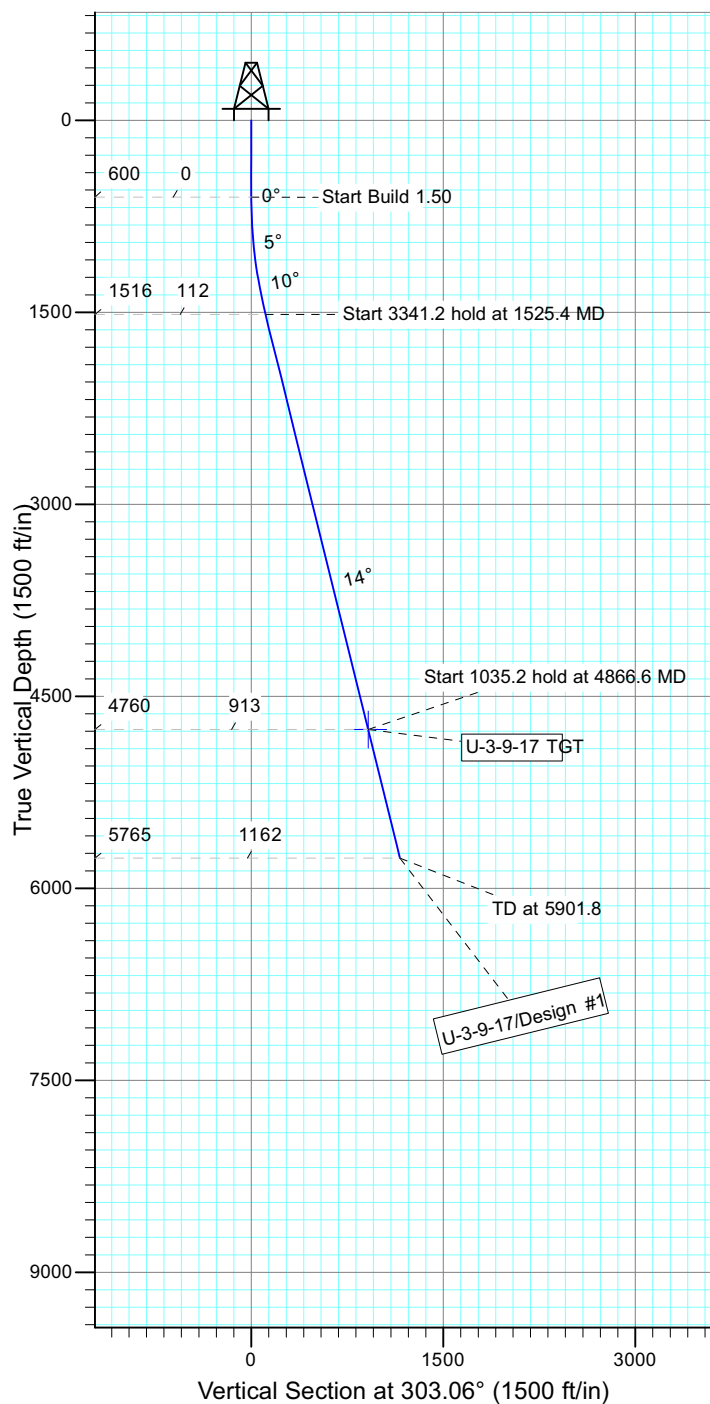
Project: USGS Myton SW (UT)  
 Site: SECTION 11 T9S, R17E  
 Well: U-3-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.14°

Magnetic Field  
 Strength: 52183.0snT  
 Dip Angle: 65.79°  
 Date: 7/9/2012  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100



#### WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
U-3-9-17 TGT	4760.0	498.1	-765.3	Circle (Radius: 75.0)

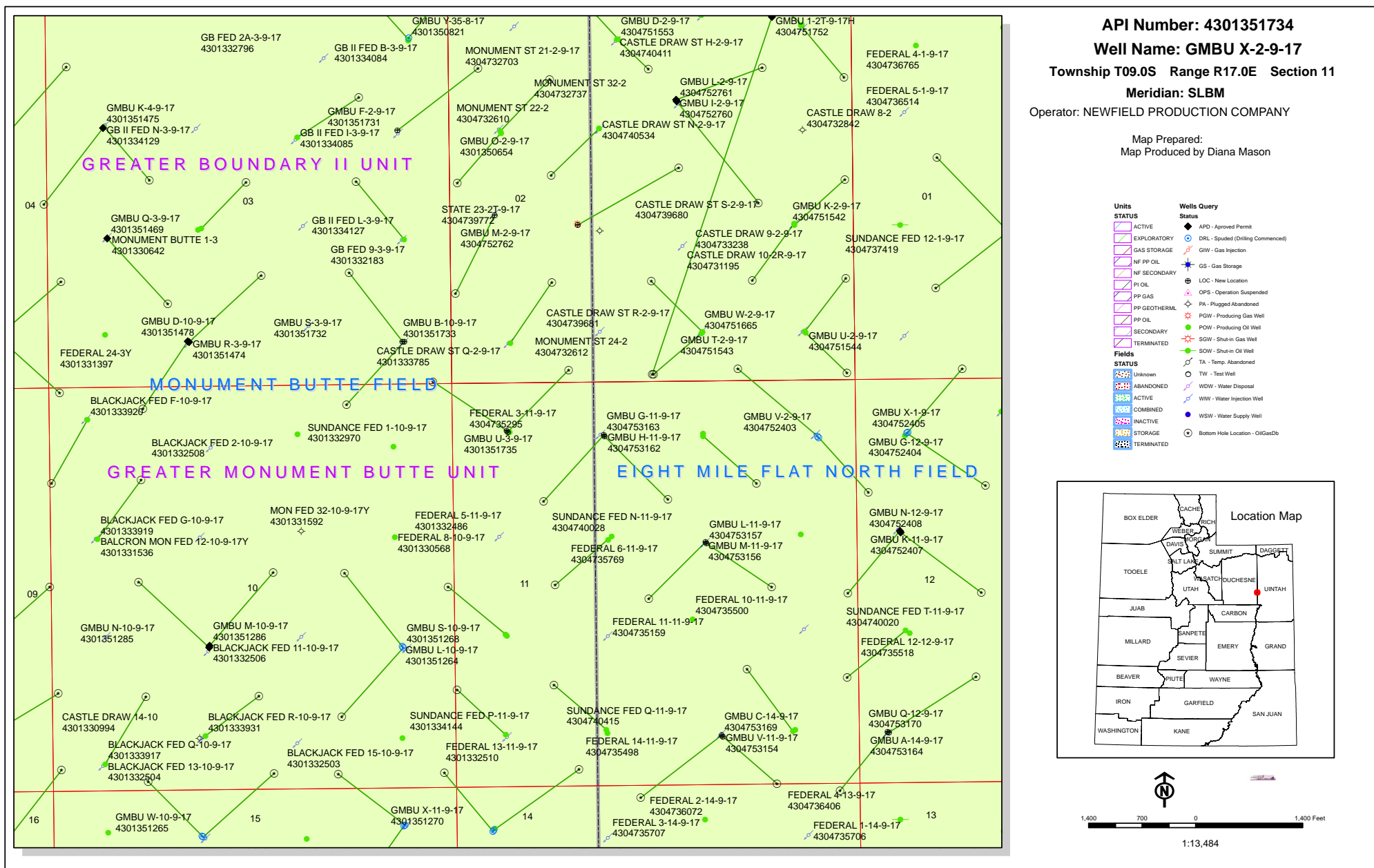
#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1525.4	13.88	303.06	1516.4	60.9	-93.5	1.50	303.06	111.6	
4	4866.6	13.88	303.06	4760.0	498.1	-765.3	0.00	0.00	913.2	U-3-9-17 TGT
5	5901.8	13.88	303.06	5765.0	633.6	-973.5	0.00	0.00	1161.5	



Received: September 21, 2012





VIA ELECTRONIC DELIVERY



September 26, 2012

State of Utah, Division of Oil, Gas and Mining  
ATTN: Diana Mason  
P.O. Box 145801  
Salt Lake City, UT 84114-5801

RE: Directional Drilling  
**GMBU X-2-9-17**  
Greater Monument Butte (Green River) Unit

Surface Hole: T9S-R17E Section 11: NWNW (UTU-79013)  
636' FNL 728' FWL

At Target: T9S-R17E Section 2: SESW (ML-45555)  
166' FSL 1531' FWL

Duchesne County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 9/24/2012, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole and target locations of this well are both within the boundaries of the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Further, Newfield certifies that all lands within 460 feet of the entire directional well bore are within the Greater Monument Butte Unit.

NPC is permitting this well as a directional well in order to mitigate surface disturbance by utilizing pre-existing roads and pipelines.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-383-4121 or by email at [lburget@newfield.com](mailto:lburget@newfield.com). Your consideration in this matter is greatly appreciated.

Sincerely,  
Newfield Production Company

A handwritten signature in blue ink that reads "Leslie Burget".

Leslie Burget  
Land Associate

Form 3160-3  
(August 2007)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

## APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU79013
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator NEWFIELD PRODUCTION COMPANY		7. If Unit or CA Agreement, Name and No. GREATER MONUMENT
Contact: MANDIE CROZIER Email: mcrozier@newfield.com		8. Lease Name and Well No. GMBU X-2-9-17
3a. Address ROUTE #3 BOX 3630 MYTON, UT 84052	3b. Phone No. (include area code) Ph: 435-646-4825 Fx: 435-646-3031	9. API Well No.
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNW 636FNL 728FWL At proposed prod. zone SESW 166FSL 1531FWL		10. Field and Pool, or Exploratory MONUMENT BUTTE
14. Distance in miles and direction from nearest town or post office* 14.7 MILES SOUTHEAST OF MYTON		11. Sec., T., R., M., or Blk. and Survey or Area Sec 11 T9S R17E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 166'	16. No. of Acres in Lease 320.00	12. County or Parish DUCHESENE
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1091'	19. Proposed Depth 6193 MD 6070 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5087 GL	22. Approximate date work will start 01/01/2013	17. Spacing Unit dedicated to this well 20.00
		20. BLM/BIA Bond No. on file WYB000493
		23. Estimated duration 7 DAYS

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature (Electronic Submission)	Name (Printed/Typed) MANDIE CROZIER Ph: 435-646-4825	Date 09/24/2012
Title REGULATORY ANALYST		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## Additional Operator Remarks (see next page)

Electronic Submission #151568 verified by the BLM Well Information System  
For NEWFIELD PRODUCTION COMPANY, sent to the Vernal

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

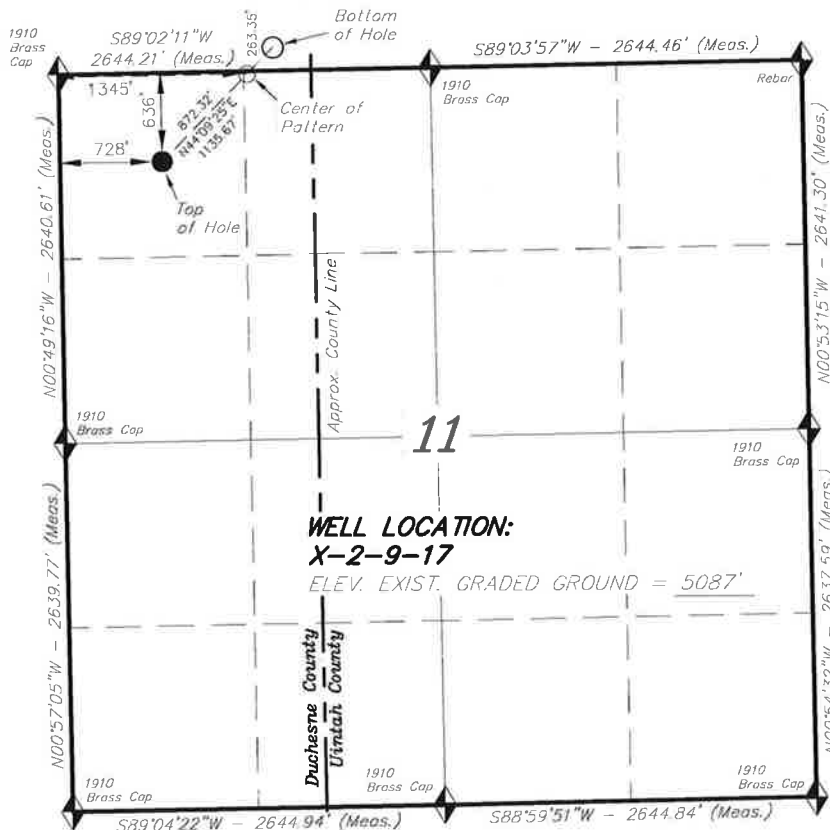
API Well Number: 43013517340000

**Additional Operator Remarks:**

SURFACE LEASE: UTU-79013  
BOTTOM HOLE LEASE: ML-45555

**T9S, R17E, S.L.B.&M.****NEWFIELD EXPLORATION COMPANY**

WELL LOCATION, X-2-9-17, LOCATED  
AS SHOWN IN THE NW 1/4 NW 1/4 OF  
SECTION 11, T9S, R17E, S.L.B.&M.  
DUCHESE COUNTY, UTAH.



**WELL LOCATION:  
X-2-9-17**

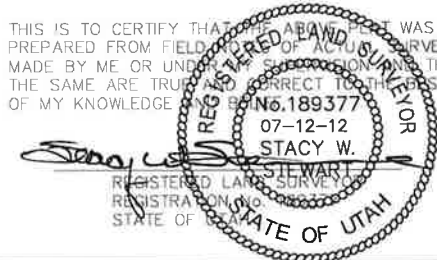
ELEV. EXIST. GRADED GROUND = 5087'

**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Center of Pattern footages are 20' FNL & 1345' FWL.



THIS IS TO CERTIFY THAT THE ABOVE WAS PREPARED FROM FIELD AND OFFICE SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

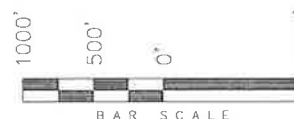
<b>NAD 83 (SURFACE LOCATION)</b>
LATITUDE = 40°03'03.38"
LONGITUDE = 109°58'50.50"
<b>NAD 27 (SURFACE LOCATION)</b>
LATITUDE = 40°03'03.51"
LONGITUDE = 109°58'47.97"

**TRI STATE LAND SURVEYING & CONSULTING**  
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 06-29-11	SURVEYED BY: S.H.	VERSION:
DATE DRAWN: 07-21-11	DRAWN BY: M.W.	V3
REVISED: 07-12-12 F.T.M.	SCALE: 1" = 1000'	

**T9S, R17E, S.L.B.&M.****NEWFIELD EXPLORATION COMPANY**

TARGET BOTTOM HOLE, X-2-9-17,  
LOCATED AS SHOWN IN THE SE 1/4  
SW 1/4 OF SECTION 2, T9S, R17E,  
S.L.B.&M. DUCHESNE COUNTY, UTAH.

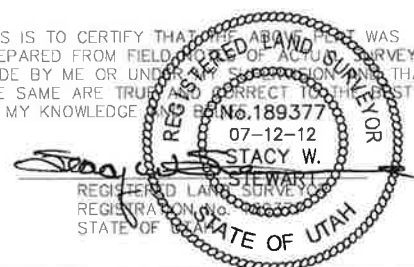
**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Bottom of Hole footages are 166' FSL & 1531' FWL.



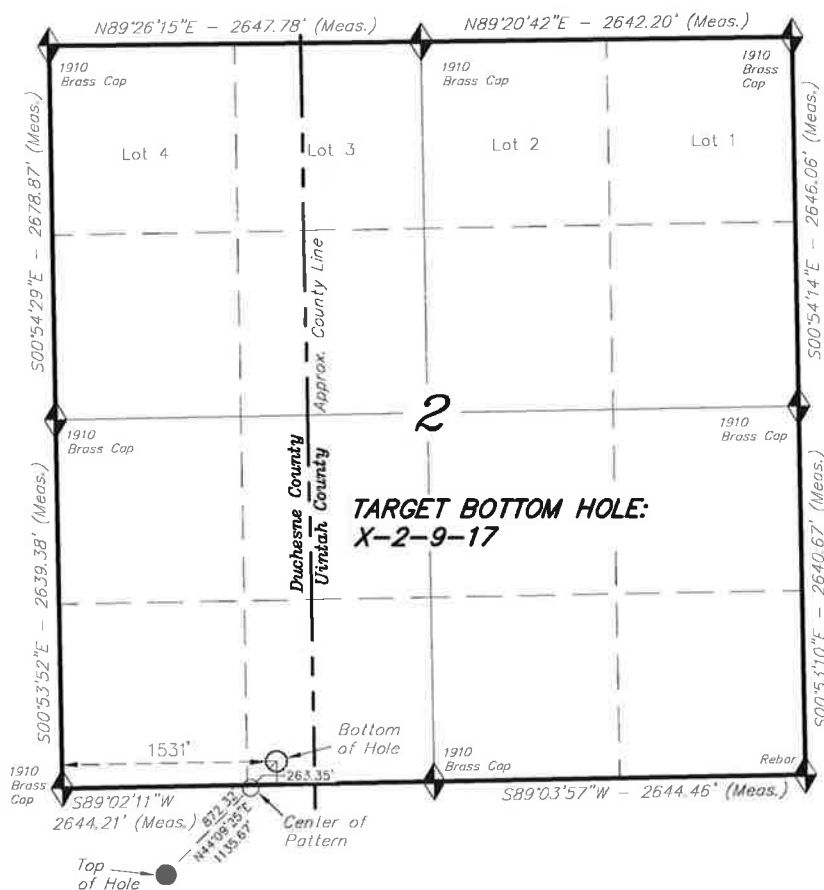
◆ = SECTION CORNERS LOCATED

THIS IS TO CERTIFY THAT THE ABOVE WAS  
PREPARED FROM FIELD NOTES OF ACCURATE SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION, THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST  
OF MY KNOWLEDGE.

**TRI STATE LAND SURVEYING & CONSULTING**

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

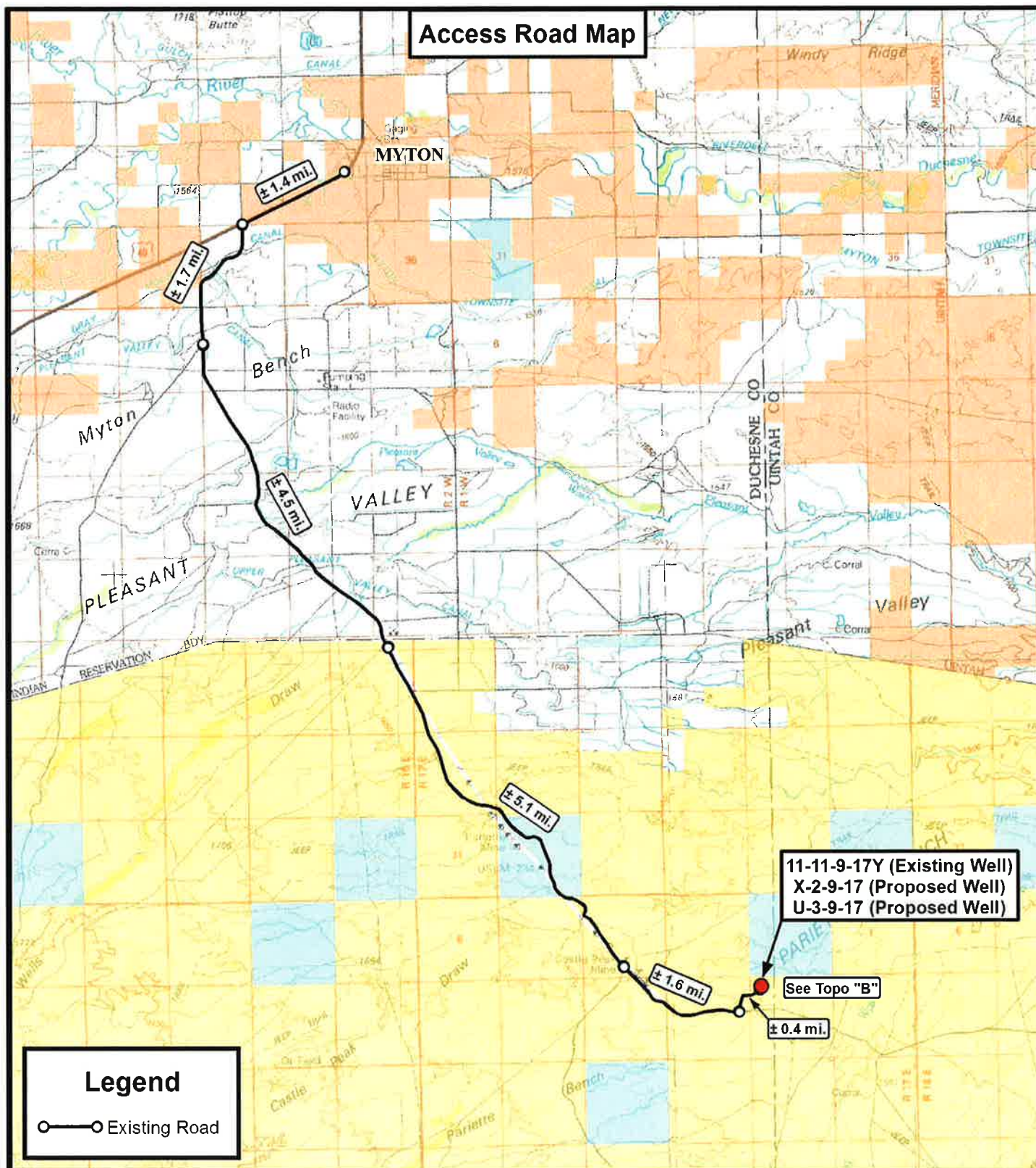
DATE SURVEYED: 06-29-11	SURVEYED BY: S.H.	VERSION:
DATE DRAWN: 07-21-11	DRAWN BY: M.W.	V3
REVISED: 07-12-12 F.T.M.	SCALE: 1" = 1000'	



BASIS OF ELEV; Elevations are based on  
an N.G.S. OPUS Correction. LOCATION:  
LAT. 40°04'09.56" LONG. 110°00'43.28"  
(Tristate Aluminum Cap) Elev. 5281.57'

<b>NAD 83 (BOTTOM HOLE LOCATION)</b>
LATITUDE = 40°03'11.30"
LONGITUDE = 109°58'40.15"
<b>NAD 27 (BOTTOM HOLE LOCATION)</b>
LATITUDE = 40°03'11.43"
LONGITUDE = 109°58'37.62"





**Tri State**  
**Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
 F: (435) 781-2518



## NEWFIELD EXPLORATION COMPANY

11-11-9-17Y (Existing Well)

X-2-9-17 (Proposed Well)

U-3-9-17 (Proposed Well)

SEC. 11, T9S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY: D.C.R. REVISED: 07-12-12 A.P.C. VERSION:

DATE: 07-25-2011

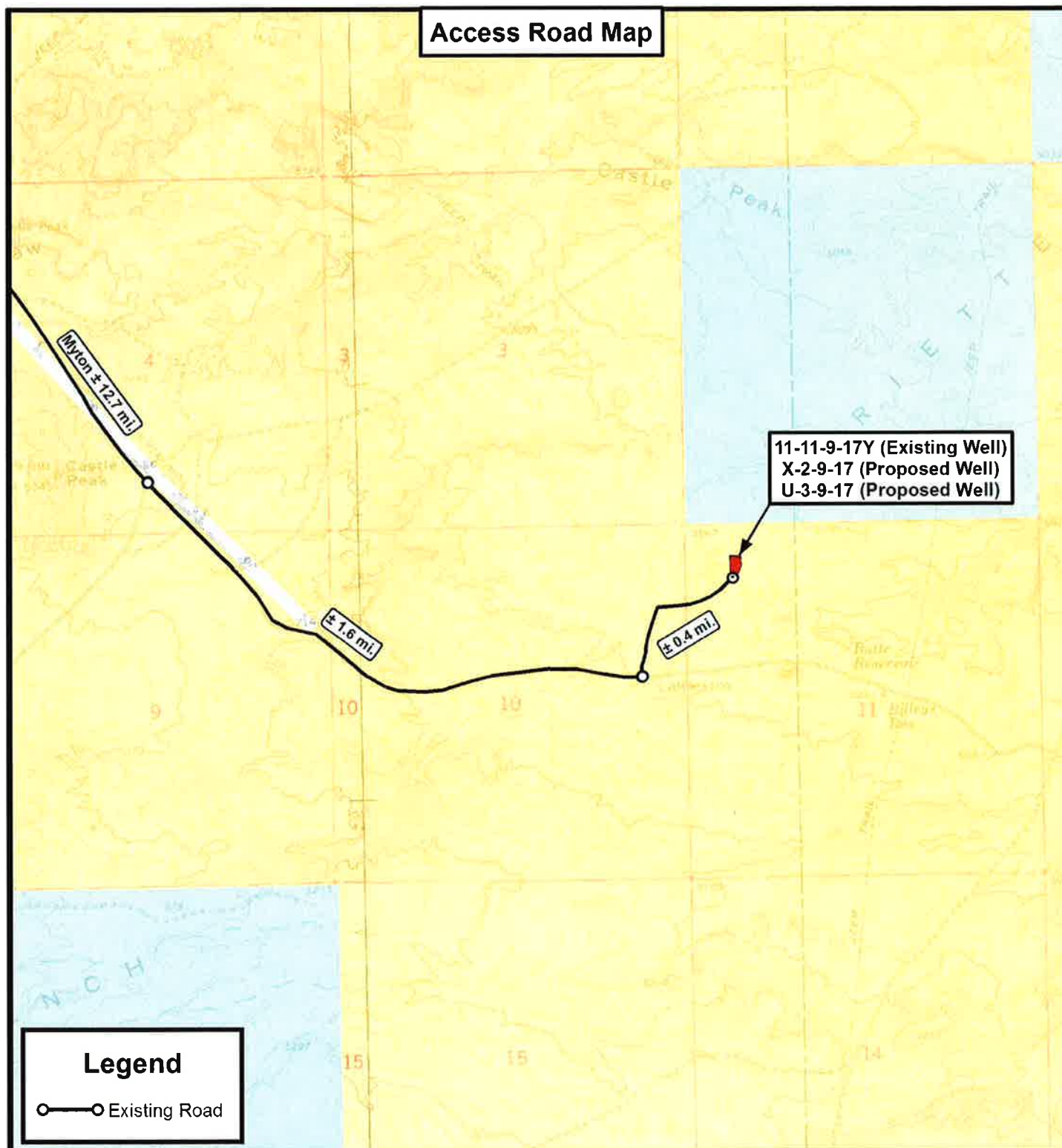
SCALE: 1:100,000

**V3**

**TOPOGRAPHIC MAP**

SHEET

**A**



THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



**Tri State  
Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
F: (435) 781-2518



## NEWFIELD EXPLORATION COMPANY

11-11-9-17Y (Existing Well)

X-2-9-17 (Proposed Well)

U-3-9-17 (Proposed Well)

SEC. 11, T9S, R17E, S.L.B.&M. Duchesne County, UT.

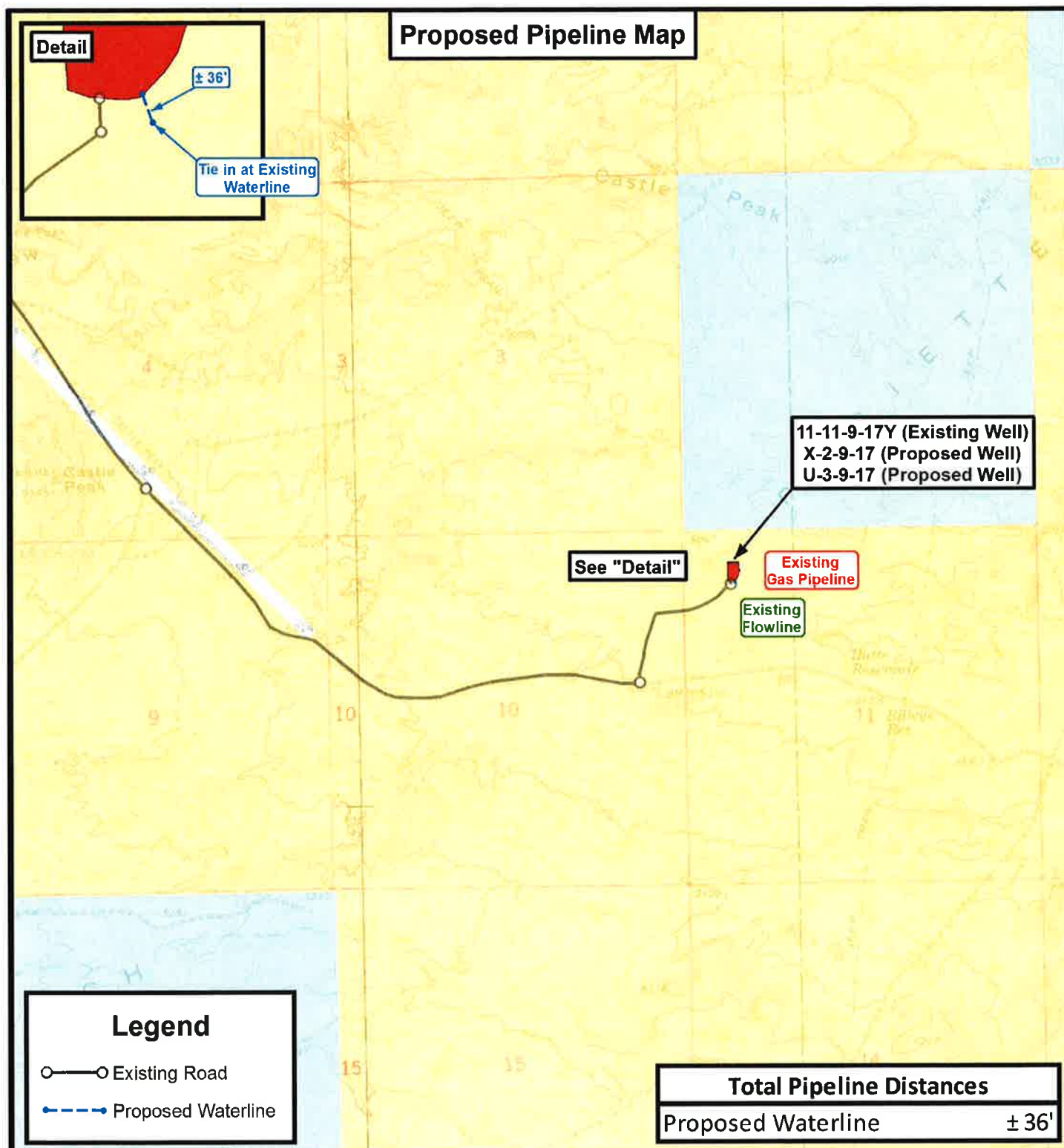
DRAWN BY:	D.C.R.	REVISED:	07-12-12 A.P.C.	VERSION:
DATE:	07-25-2011			
SCALE:	1" = 2,000'			<b>V3</b>

**TOPOGRAPHIC MAP**

SHEET

**B**





THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



**Tri State  
Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
F: (435) 781-2518



## NEWFIELD EXPLORATION COMPANY

11-11-9-17Y (Existing Well)

X-2-9-17 (Proposed Well)

U-3-9-17 (Proposed Well)

SEC. 11, T9S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	D.C.R.	REVISED:	07-12-12 A.P.C.	VERSION:
DATE:	07-25-2011			V3
SCALE:	1" = 2,000'			

**TOPOGRAPHIC MAP**

SHEET

**C**

**Exhibit "B" Map**

11-11-9-17Y (Existing Well)  
 X-2-9-17 (Proposed Well)  
 U-3-9-17 (Proposed Well)

**Legend**

- 1 Mile Radius  
 ● Pad Location

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



**Tri State  
 Land Surveying, Inc.**

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P: (435) 781-2501  
 F: (435) 781-2518

**NEWFIELD EXPLORATION COMPANY**

11-11-9-17Y (Existing Well)  
 X-2-9-17 (Proposed Well)  
 U-3-9-17 (Proposed Well)

SEC. 11, T9S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	D.C.R.	REVISED: 07-12-12 A.P.C.	VERSION:
DATE:	07-25-2011		V3
SCALE:	1" = 2,000'		

**TOPOGRAPHIC MAP**

SHEET

**D**

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 9/21/2012

API NO. ASSIGNED: 43013517340000

WELL NAME: GMBU X-2-9-17

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: NWNW 11 090S 170E

Permit Tech Review: ☒

SURFACE: 0636 FNL 0728 FWL

Engineering Review: ☐

BOTTOM: 0166 FSL 1531 FWL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.05094

LONGITUDE: -109.98069

UTM SURF EASTINGS: 586944.00

NORTHINGS: 4433908.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-79013

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

- ☒ PLAT
- ☒ Bond: FEDERAL - WYB000493
- ☐ Potash
- ☐ Oil Shale 190-5
- ☐ Oil Shale 190-3
- ☐ Oil Shale 190-13
- ☒ Water Permit: 437478
- ☐ RDCC Review:
- ☐ Fee Surface Agreement
- ☐ Intent to Commingle

Commingling Approved

## LOCATION AND SITING:

- ☐ R649-2-3.
- Unit: GMBU (GRRV)
- ☐ R649-3-2. General
- ☐ R649-3-3. Exception
- ☒ Drilling Unit
- Board Cause No: Cause 213-11
- Effective Date: 11/30/2009
- Siting: Suspends General Siting
- ☒ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason  
15 - Directional - dmason  
27 - Other - bhill

RECEIVED: October 01, 2012



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

## Permit To Drill

\*\*\*\*\*

**Well Name:** GMBU X-2-9-17  
**API Well Number:** 43013517340000  
**Lease Number:** UTU-79013  
**Surface Owner:** FEDERAL  
**Approval Date:** 10/1/2012

### Issued to:

NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### Conditions of Approval:

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

### Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284



(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website  
at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers  
Associate Director, Oil & Gas

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-79013
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> GMBU X-2-9-17
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0636 FNL 0728 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 11 Township: 09.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43013517340000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: <b>8/6/2013</b>	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 08/06/2013 - Hold JSA, Rig up over hole Set 9' of 14" Conductor Drill 12 1/4" hole to 321' KB. On 8/8/13 cement w/Pro Petro w/200 sks of class G+2%kcl+.25#CF mixed @ 15.8ppg and 1.17 yield. Returned 7bbls to pit, BLM and State were notified of spud via email.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 August 23, 2013

<b>NAME (PLEASE PRINT)</b> Cherei Neilson	<b>PHONE NUMBER</b> 435 646-4883	<b>TITLE</b> Drilling Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/22/2013	

**NEWFIELD****Casing****Conductor**

Legal Well Name GMBU X-2-9-17			Wellbore Name Original Hole		
API/UWI 43013517340000	Surface Legal Location	Field Name GMBU CTB8	Well Type Exploration	Well Configuration Type Slant	
Well RC 500346726	County Duchesne	State/Province Utah	Spud Date	Final Rig Release Date	

<b>Wellbore</b>					
Wellbore Name Original Hole			Kick Off Depth (ftKB)		
Section Des	Size (in)	Actual Top Depth (MD) (ftKB)	Actual Bottom Depth (MD) (ftKB)	Start Date	End Date
Conductor	14	13	22	8/6/2013	8/6/2013
Vertical	12 1/4	22	334	8/6/2013	8/7/2013

<b>Wellhead</b>				
Type	Install Date	Service	Comment	

<b>Wellhead Components</b>				
Des	Make	Model	SN	WP Top (psi)

Casing			
Casing Description	Set Depth (ftKB)	Run Date	Set Tension (kips)
Conductor	22	8/6/2013	
Centralizers	Scratchers		

<b>Casing Components</b>												
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	Mk-up Tq (ft•lb)	Class	Max OD (in)
Conductor Casing	14	13.500	36.75	H-40		1	9.00	13.0	22.0			

<b>Jewelry Details</b>									
<b>External Casing Packer</b>									
Type	Setting Requirement			Release Requirements			Inflation Method	Vol Inflation (gal)	Equiv Hole Sz (in)
Inflation Fluid Type	Infl Fl Dens (lb/gal)	P AV Set (psi)	AV Acting Pressure (psi)	P ICV Set (psi)	P ICV Act (psi)	ECP Load (1000lbf)	Seal Load (1000lbf)		

<b>Slotted Liner</b>							
% Open Area (%)	Perforation Min Dimension (in)	Perforation Max Dimension (in)	Axial Perf Spacing (ft)	Perf Rows	Blank Top Length (ft)	Blank Bottom Length (ft)	
Slot Description	Slot Pattern			Slot Length (in)	Slot Width (in)	Slot Frequency	Screen Gauge (ga)

Liner Hanger				
Retrievable?	Elastomer Type	Element Center Depth (ft)	Polish Bore Size (in)	Polish Bore Length (ft)
Slip Description			Set Mechanics	
Setting Procedure				
Unsetting Procedure				

**NEWFIELD****Casing****Surface**

Legal Well Name GMBU X-2-9-17			Wellbore Name Original Hole		
API/UWI 43013517340000	Surface Legal Location	Field Name GMBU CTB8	Well Type Exploration	Well Configuration Type Slant	
Well RC 500346726	County Duchesne	State/Province Utah	Spud Date	Final Rig Release Date	

<b>Wellbore</b>					
Wellbore Name Original Hole			Kick Off Depth (ftKB)		
Section Des	Size (in)	Actual Top Depth (MD) (ftKB)	Actual Bottom Depth (MD) (ftKB)	Start Date	End Date
Conductor	14	13	22	8/6/2013	8/6/2013
Vertical	12 1/4	22	334	8/6/2013	8/7/2013

<b>Wellhead</b>				
Type	Install Date	Service	Comment	

<b>Wellhead Components</b>				
Des	Make	Model	SN	WP Top (psi)

<b>Casing</b>				
Casing Description Surface	Set Depth (ftKB) 329	Run Date 8/7/2013	Set Tension (kips)	
Centralizers 3	Scratchers			

<b>Casing Components</b>												
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	Mk-up Tq (ft•lb)	Class	Max OD (in)
Casing Joints with 2' cut off	8 5/8	8.097	24.00	J-55	ST&C	1	42.84	15.0	57.8			
Casing Joints	8 5/8	8.097	24.00	J-55	ST&C	5	223.81	57.8	281.7			
Float Collar	8 5/8	8.097	24.00	J-55	ST&C		0.92	281.7	282.6			
Shoe joint	8 5/8	8.097	24.00	J-55	ST&C	1	45.04	282.6	327.6			
Guide Shoe	8 5/8	8.097	24.00	J-55	ST&C		1.39	327.6	329.0			

<b>Jewelry Details</b>									
<b>External Casing Packer</b>									
Type	Setting Requirement	Release Requirements			Inflation Method	Vol Inflation (gal)	Equiv Hole Sz (in)		
Inflation Fluid Type	Infl FI Dens (lb/gal)	P AV Set (psi)	AV Acting Pressure (psi)	P ICV Set (psi)	P ICV Act (psi)	ECP Load (1000lbf)	Seal Load (1000lbf)		

<b>Slotted Liner</b>							
% Open Area (%)	Perforation Min Dimension (in)	Perforation Max Dimension (in)	Axial Perf Spacing (ft)	Perf Rows	Blank Top Length (ft)	Blank Bottom Length (ft)	
Slot Description	Slot Pattern			Slot Length (in)	Slot Width (in)	Slot Frequency	Screen Gauge (ga)

<b>Liner Hanger</b>				
Retrievable?	Elastomer Type	Element Center Depth (ft)	Polish Bore Size (in)	Polish Bore Length (ft)
Slip Description			Set Mechanics	
Setting Procedure				
Unsetting Procedure				

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

SEP 24 2012

FORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU79013
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator NEWFIELD PRODUCTION COMPANY Contact: MANDIE CROZIER Email: mcrozier@newfield.com		7. If Unit or CA Agreement, Name and No. GREATER MONUMENT
3a. Address ROUTE #3 BOX 3630 MYTON, UT 84052		8. Lease Name and Well No. GMBU X-2-9-17
3b. Phone No. (include area code) Ph: 435-646-4825 Fx: 435-646-3031		9. API Well No. 43-013-51734
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface NWNW 636FNL 728FWL At proposed prod. zone SESW 166FSL 1531FWL		10. Field and Pool, or Exploratory MONUMENT BUTTE
14. Distance in miles and direction from nearest town or post office* 14.7 MILES SOUTHEAST OF MYTON		11. Sec., T., R., M., or Blk. and Survey or Area Sec 11 T9S R17E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 166'	16. No. of Acres in Lease 320.00	12. County or Parish DUCHESENE
17. Spacing Unit dedicated to this well 20.00	18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1091'	13. State UT
19. Proposed Depth 6193 MD 6070 TVD	21. Elevations (Show whether DF, KB, RT, GL, etc.) 5087 GL	20. BLM/BIA Bond No. on file WYB000493
22. Approximate date work will start 01/01/2013	23. Estimated duration 7 DAYS	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) MANDIE CROZIER Ph: 435-646-4825	Date 09/24/2012
Title REGULATORY ANALYST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date JUL 25 2013
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #151568 verified by the BLM Well Information System  
For NEWFIELD PRODUCTION COMPANY, sent to the Vernal  
Committed to AFMSS for processing by LESLIE ROBINSON on 10/12/2012 ()

RECEIVED

JUL 30 2013

DIV. OF OIL, GAS & MINING

D

NOTICE OF APPROVAL

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE  
170 South 500 East VERNAL, UT 84078 (435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company:	Newfield Production Company	Location:	NWNW, Sec. 11, T9S, R17E
Well No:	GMBU X-2-9-17	Lease No:	UTU- 79013
API No:	43-013-51734	Agreement:	Greater Monument Butte

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

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Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
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Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:blm_ut_vn_opreport@blm.gov">blm_ut_vn_opreport@blm.gov</a>
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

**Minerals and Paleontology**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**Green River District Reclamation Guidelines**

The Operator will comply with the requirements of the ***Green River District (GRD) Reclamation Guidelines*** formalized by Green River District Instructional Memo UTG000-2011-003 on March 28, 2011. Documentation of the compliance will be as follows:

- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) that designates the proposed site-specific monitoring and reference sites chosen for the location. A description of the proposed sites shall be included, as well as a map showing the locations of the proposed sites.
- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) 3 growing seasons after reclamation efforts have occurred evaluating the status of the reclaimed areas in order to determine whether the BLM standards set forth in the GRD Reclamation Guidelines have been met (30% or greater basal cover).
- Prior to beginning new surface disturbance, the operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) providing the results of the noxious weed inventory described in the GRD Reclamation Guidelines (2011). If weeds are found the report shall include 1) A GPS location recorded in North American Datum 1983; 2) species; 3) canopy cover or number of plants; 4) and size of infestation (estimate square feet or acres. Information shall be also documented in the reclamation report.

**CONDITIONS OF APPROVAL**

**Wildlife**

**In accordance with the Record of Decision for the Castle Peak and Eightmile Flat Oil and Gas Expansion Project, Newfield Rocky Mountains Inc., the following COA's are required:**

- WFM-1 On level or gently sloping ground (5 percent slope or less) Newfield will elevate surface pipelines (4 inches or greater in diameter) a minimum of 6 inches above the ground to allow passage of small animals beneath the pipe. This ground clearance will be achieved by placing the pipeline on blocks at intervals of 150 to 200 feet.
- WFM-4 Newfield will install noise reduction devices on all pump jacks to reduce intermittent noise to 45 dBA at 660 feet from the source.



**COA's derived from mitigating measures in the EA:**

**If construction and drilling is anticipated during any of the following wildlife seasonal spatial restrictions, a BLM biologist or a qualified consulting firm biologist must conduct applicable surveys using an accepted protocol prior to any ground disturbing activities.**

- If it is anticipated that construction or drilling will occur during Mountain plover nesting season (May 1 – June 15), a BLM biologist will be notified to determine if surveys are necessary prior to beginning operations. If surveys are deemed necessary, depending on the results permission to proceed may or may not, be granted by the BLM Authorized Officer.

**For protection of T&E Fish if drawing water from the Green River**

- For areas of fresh water collection, an infiltration gallery will be constructed in a Service approved location. An infiltration gallery is basically a pit or trench dug within the floodplain to a depth below the water table. Water is drawn from the pit rather than from the river directly. If this is not possible, limit pumping within the river to off-channel locations that do not connect to the river during high spring flows.
- If water cannot be drawn using the measures above and the pump head will be located in the river channel where larval fish are known to occur, the following measures apply:
  - Avoid pumping from low-flow or no-flow areas as these habitats tend to concentrate larval fish
  - Avoid pumping to the greatest extent possible, during that period of the year when larval fish may be present (see previous bullet); and
  - Avoid pumping, to the greatest extent possible, during the midnight hours (10:00 p.m. to 2:00 a.m.) as larval drift studies indicate that this is a period of greatest daily activity. Dusk is the preferred pumping time, as larval drift abundance is lowest during this time.
  - Screen all pump intakes with 3/32-inch mesh material.
- Report any fish impinged on the intake screen to the FWS office (801.975.3330) and the:  
Utah Division of Wildlife Resources  
Northeastern Region  
152 East 100 North  
Vernal, UT 84078  
(435) 781-9453

**Air Quality**

1. All internal combustion equipment will be kept in good working order.
2. Water or other approved dust suppressants will be used at construction sites and along roads, as determined appropriate by the Authorized Officer. Dust suppressant such as magnesium chloride or fresh water may be used, as needed, during the drilling phase.
3. Open burning of garbage or refuse will not occur at well sites or other facilities.
4. Drill rigs will be equipped with Tier II or better diesel engines.
5. Low bleed pneumatics will be installed on separator dump valves and other controllers.
6. During completion, no venting will occur, and flaring will be limited as much as possible. Production equipment and gathering lines will be installed as soon as possible.
7. Telemetry will be installed to remotely monitor and control production.

8. When feasible, two or more rigs (including drilling and completion rigs) will not be run simultaneously within 200 meters of each other. If two or more rigs must be run simultaneously within 200 meters of each other, then effective public health buffer zones out to 200 meters (m) from the nearest emission source will be implemented. Examples of an effective public health protection buffer zone include the demarcation of a public access exclusion zone by signage at intervals of every 250 feet that is visible from a distance of 125 feet during daylight hours, and a physical buffer such as active surveillance to ensure the property is not accessible by the public during drilling operations. Alternatively, the proponent may demonstrate compliance with the 1-hour NO<sub>2</sub> National Ambient Air Quality Standards (NAAQS) with appropriate and accepted near-field modeling. As part of this demonstration, the proponent may propose alternative mitigation that could include but is not limited to natural gas-fired drill rigs, installation of NO<sub>x</sub> controls, time/use restrictions, and/or drill rig spacing.
9. All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horse power must not emit more than 2 grams of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.
10. All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 grams of NO<sub>x</sub> per horsepower-hour.
11. Green completions will be used for all well completion activities where technically feasible.
12. Employ enhanced VOC emission controls with 95% control efficiency on production equipment having a potential to emit greater than 5 tons per year.

#### **Threatened and Endangered Plants**

- Reinitiation of Section 7 consultation with the USFWS will be sought immediately if any loss of plants or occupied habitat for Pariette cactus or Uinta Basin hookless cactus is anticipated as a result of project activities.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- Production casing cement shall be brought up and into the surface.
- Surface casing cement shall be brought to surface.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB

or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Pro Petro 8  
Submitted By Branden Arnold Phone Number 435-401-0223  
Well Name/Number GMBU X-2-9-17  
Qtr/Qtr NW/NW Section 11 Township 9S Range 17E  
Lease Serial Number UTU-79013  
API Number 43-013-51734

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 8/7/13 7:00 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing  
☐ Intermediate Casing  
☐ Production Casing  
☐ Liner  
☐ Other

Date/Time 8/7/13 3:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point  
☐ BOPE test at intermediate casing point  
☐ 30 day BOPE test  
☐ Other

**RECEIVED**

**AUG 07 2013**

**DIV. OF OIL, GAS & MINING**

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Remarks \_\_\_\_\_

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

SEP 24 2012

FORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

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25. Signature (Electronic Submission)	Name (Printed/Typed) MANDIE CROZIER Ph: 435-646-4825	Date 09/24/2012
Title REGULATORY ANALYST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date JUL 25 2013
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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RECEIVED

JUL 30 2013

DIV. OF OIL, GAS & MINING

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

NOTICE OF APPROVAL

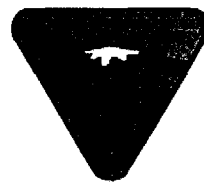


UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Newfield Production Company  
Well No: GMBU X-2-9-17  
API No: 43-013-51734

Location: NWNW, Sec. 11, T9S, R17E  
Lease No: UTU- 79013  
Agreement: Greater Monument Butte

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

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**Minerals and Paleontology**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**Green River District Reclamation Guidelines**

The Operator will comply with the requirements of the ***Green River District (GRD) Reclamation Guidelines*** formalized by Green River District Instructional Memo UTG000-2011-003 on March 28, 2011. Documentation of the compliance will be as follows:

- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) that designates the proposed site-specific monitoring and reference sites chosen for the location. A description of the proposed sites shall be included, as well as a map showing the locations of the proposed sites.
- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) 3 growing seasons after reclamation efforts have occurred evaluating the status of the reclaimed areas in order to determine whether the BLM standards set forth in the GRD Reclamation Guidelines have been met (30% or greater basal cover).
- Prior to beginning new surface disturbance, the operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) providing the results of the noxious weed inventory described in the GRD Reclamation Guidelines (2011). If weeds are found the report shall include 1) A GPS location recorded in North American Datum 1983; 2) species; 3) canopy cover or number of plants; 4) and size of infestation (estimate square feet or acres. Information shall be also documented in the reclamation report.

**CONDITIONS OF APPROVAL**

**Wildlife**

**In accordance with the Record of Decision for the Castle Peak and Eightmile Flat Oil and Gas Expansion Project, Newfield Rocky Mountains Inc., the following COA's are required:**

- WFM-1 On level or gently sloping ground (5 percent slope or less) Newfield will elevate surface pipelines (4 inches or greater in diameter) a minimum of 6 inches above the ground to allow passage of small animals beneath the pipe. This ground clearance will be achieved by placing the pipeline on blocks at intervals of 150 to 200 feet.
- WFM-4 Newfield will install noise reduction devices on all pump jacks to reduce intermittent noise to 45 dBA at 660 feet from the source.

**COA's derived from mitigating measures in the EA:**

**If construction and drilling is anticipated during any of the following wildlife seasonal spatial restrictions, a BLM biologist or a qualified consulting firm biologist must conduct applicable surveys using an accepted protocol prior to any ground disturbing activities.**

- If it is anticipated that construction or drilling will occur during Mountain plover nesting season (May 1 – June 15), a BLM biologist will be notified to determine if surveys are necessary prior to beginning operations. If surveys are deemed necessary, depending on the results permission to proceed may or may not, be granted by the BLM Authorized Officer.

**For protection of T&E Fish if drawing water from the Green River**

- For areas of fresh water collection, an infiltration gallery will be constructed in a Service approved location. An infiltration gallery is basically a pit or trench dug within the floodplain to a depth below the water table. Water is drawn from the pit rather than from the river directly. If this is not possible, limit pumping within the river to off-channel locations that do not connect to the river during high spring flows.
- If water cannot be drawn using the measures above and the pump head will be located in the river channel where larval fish are known to occur, the following measures apply:
  - Avoid pumping from low-flow or no-flow areas as these habitats tend to concentrate larval fish
  - Avoid pumping to the greatest extent possible, during that period of the year when larval fish may be present (see previous bullet); and
  - Avoid pumping, to the greatest extent possible, during the midnight hours (10:00 p.m. to 2:00 a.m.) as larval drift studies indicate that this is a period of greatest daily activity. Dusk is the preferred pumping time, as larval drift abundance is lowest during this time.
  - Screen all pump intakes with 3/32-inch mesh material.
- Report any fish impinged on the intake screen to the FWS office (801.975.3330) and the:  
Utah Division of Wildlife Resources  
Northeastern Region  
152 East 100 North  
Vernal, UT 84078  
(435) 781-9453

**Air Quality**

1. All internal combustion equipment will be kept in good working order.
2. Water or other approved dust suppressants will be used at construction sites and along roads, as determined appropriate by the Authorized Officer. Dust suppressant such as magnesium chloride or fresh water may be used, as needed, during the drilling phase.
3. Open burning of garbage or refuse will not occur at well sites or other facilities.
4. Drill rigs will be equipped with Tier II or better diesel engines.
5. Low bleed pneumatics will be installed on separator dump valves and other controllers.
6. During completion, no venting will occur, and flaring will be limited as much as possible. Production equipment and gathering lines will be installed as soon as possible.
7. Telemetry will be installed to remotely monitor and control production.

8. When feasible, two or more rigs (including drilling and completion rigs) will not be run simultaneously within 200 meters of each other. If two or more rigs must be run simultaneously within 200 meters of each other, then effective public health buffer zones out to 200 meters (m) from the nearest emission source will be implemented. Examples of an effective public health protection buffer zone include the demarcation of a public access exclusion zone by signage at intervals of every 250 feet that is visible from a distance of 125 feet during daylight hours, and a physical buffer such as active surveillance to ensure the property is not accessible by the public during drilling operations. Alternatively, the proponent may demonstrate compliance with the 1-hour NO<sub>2</sub> National Ambient Air Quality Standards (NAAQS) with appropriate and accepted near-field modeling. As part of this demonstration, the proponent may propose alternative mitigation that could include but is not limited to natural gas-fired drill rigs, installation of NO<sub>x</sub> controls, time/use restrictions, and/or drill rig spacing.
9. All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horse power must not emit more than 2 grams of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.
10. All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 grams of NO<sub>x</sub> per horsepower-hour.
11. Green completions will be used for all well completion activities where technically feasible.
12. Employ enhanced VOC emission controls with 95% control efficiency on production equipment having a potential to emit greater than 5 tons per year.

#### **Threatened and Endangered Plants**

- Reinitiation of Section 7 consultation with the USFWS will be sought immediately if any loss of plants or occupied habitat for Pariette cactus or Uinta Basin hookless cactus is anticipated as a result of project activities.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- Production casing cement shall be brought up and into the surface.
- Surface casing cement shall be brought to surface.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB

or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.



## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Pro Petro 8  
Submitted By Branden Arnold Phone Number 435-401-0223  
Well Name/Number GMBU X-2-9-17  
Qtr/Qtr NW/NW Section 11 Township 9S Range 17E  
Lease Serial Number UTU-79013  
API Number 43-013-51734

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 8/7/13 7:00 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing  
☐ Intermediate Casing  
☐ Production Casing  
☐ Liner  
☐ Other

Date/Time 8/7/13 3:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point  
☐ BOPE test at intermediate casing point  
☐ 30 day BOPE test  
☐ Other

**RECEIVED**

**AUG 07 2013**

**DIV. OF OIL, GAS & MINING**

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Remarks \_\_\_\_\_

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BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Capstar 329  
Submitted By Richard Hadlock Phone Number 970-361-3001  
Well Name/Number GMBU X-2-9-17  
Qtr/Qtr NW/NW Section 11 Township 9S Range 17E  
Lease Serial Number UTU79013  
API Number 43-013-51734

TD Notice – TD is the final drilling depth of hole.

Date/Time 8/28/2013 13:30 AM ☐ PM ☒

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☒ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 8/29/2013 0:30 AM ☒ PM ☐

**RECEIVED**

**AUG 28 2013**

**DIV. OF OIL, GAS & MINING**

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Capstar 329  
Submitted By Richard Hadlock Phone Number 970-361-3001  
Well Name/Number GMBU X-2-9-17  
Qtr/Qtr NW/NW Section 11 Township 9S Range 17E  
Lease Serial Number UTU79013  
API Number 43-013-51734

Rig Move Notice – Move drilling rig to new location.

Date/Time 8/25/2013 06:00 AM ☒ PM ☐

BOPE

- ☒ Initial BOPE test at surface casing point  
☐ BOPE test at intermediate casing point  
☐ 30 day BOPE test  
☐ Other

Date/Time 8/25/2013 13:00 AM ☐ PM ☒

Remarks \_\_\_\_\_

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RECEIVED  
AUG 24 2013  
DIV. OF OIL, GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-79013
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> GMBU X-2-9-17
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0636 FNL 0728 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 11 Township: 09.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43013517340000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/26/2013	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE   <input type="checkbox"/> CHANGE TO PREVIOUS PLANS   <input type="checkbox"/> CHANGE WELL STATUS   <input type="checkbox"/> DEEPEN   <input type="checkbox"/> OPERATOR CHANGE   <input checked="" type="checkbox"/> PRODUCTION START OR RESUME   <input type="checkbox"/> REPERFORATE CURRENT FORMATION   <input type="checkbox"/> TUBING REPAIR   <input type="checkbox"/> WATER SHUTOFF   <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING   <input type="checkbox"/> CHANGE TUBING   <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS   <input type="checkbox"/> FRACTURE TREAT   <input type="checkbox"/> PLUG AND ABANDON   <input type="checkbox"/> RECLAMATION OF WELL SITE   <input type="checkbox"/> SIDETRACK TO REPAIR WELL   <input type="checkbox"/> VENT OR FLARE   <input type="checkbox"/> SI TA STATUS EXTENSION   <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR   <input type="checkbox"/> CHANGE WELL NAME   <input type="checkbox"/> CONVERT WELL TYPE   <input type="checkbox"/> NEW CONSTRUCTION   <input type="checkbox"/> PLUG BACK   <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION   <input type="checkbox"/> TEMPORARY ABANDON   <input type="checkbox"/> WATER DISPOSAL   <input type="checkbox"/> APD EXTENSION           OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 60%;"> <p>The above well was placed on production on 09/26/2013 at 14:30 hours.</p> </div> <div style="width: 35%; text-align: center;"> <p><b>Accepted by the Utah Division of Oil, Gas and Mining</b></p> <p><b>FOR RECORD ONLY</b></p> <p>October 21, 2013</p> </div> </div>		
<b>NAME (PLEASE PRINT)</b> Jennifer Peatross	<b>PHONE NUMBER</b> 435 646-4885	<b>TITLE</b> Production Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/16/2013	

Form 3160-4  
(March 2012)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: October 31, 2014

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other 1b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., Other: _____						5. Lease Serial No. <b>UTU79013</b>			
2. Name of Operator <b>NEWFIELD PRODUCTION COMPANY</b>						6. If Indian, Allottee or Tribe Name			
3. Address <b>ROUTE #3 BOX 3630 MYTON, UT 84052</b>				3a. Phone No. (include area code) <b>Ph:435-646-3721</b>		7. Unit or CA Agreement Name and No. <b>UTU87538X</b>			
4. Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface <b>636' FNL 728' FWL (NW/NW) SEC 11, T9S, R17E (UTU-79013)</b>  At top prod. interval reported below <b>117' FNL 1228' FWL (NW/NW) SEC 11, T9S, R17E (UTU-79013)</b>  At total depth <b>187' FSL 1526' FWL' (SE/SW) SEC 2, T9S, R17E (ML-45555)</b>						8. Lease Name and Well No. <b>GMBU X-2-9-17</b>			
14. Date Spudded <b>08/06/2013</b>						15. Date T.D. Reached <b>08/29/2013</b>			
16. Date Completed <b>09/23/2013</b> <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.						9. API Well No. <b>43-013-51734</b>			
18. Total Depth: MD <b>6194'</b> TVD <b>6069'</b>						19. Plug Back T.D.: MD <b>6119'</b> TVD			
20. Depth Bridge Plug Set: MD TVD						17. Elevations (DF, RKB, RT, GL)* <b>5087' GL 5100' KB</b>			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) <b>DUAL IND GRD, SP, COMP. NEUTRON, GR, CALIPER, CMT BOND</b>						22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit copy)			
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	329'		200 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	6186'		260 Econocem		34'	
						470Expandacem			
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2-7/8"	EOT@5699'	TA@5599'							
25. Producing Intervals									
Formation		Top	Bottom	Perforated Interval		Size	No. Holes	Perf. Status	
A) Green River		4189'	5634'	4189'-5634' MD		.36	50		
B)									
C)									
D)									
26. Perforation Record									
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
4189'-5634' MD		Frac w/ 176192#s of 20/40 white sand in 1583 bbls of Lightning 17 fluid, in 3 stages.							
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
9/23/13	10/3/13	24	→	64	1	25			1.75 x 24' RHAC
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)



## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers  
GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MARK GARDEN GULCH 1	369' 388'
				GARDEN GULCH 2 POINT 3	4002' 4274'
				X MRKR Y MRKR	4518' 4553'
				DOUGLAS CREEK MRK BI CARBONATE MRK	4683' 4933'
				B LIMESTONE MRK CASTLE PEAK	5072' 5527'
				BASAL CARBONATE WASATCH	5956' 6080'

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)     
 ☐ Geologic Report     
 ☐ DST Report     
 ☒ Directional Survey  
☐ Sundry Notice for plugging and cement verification     
 ☐ Core Analysis     
 ☒ Other: Drilling daily activity

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Heather Calder      Title Regulatory Technician  
 Signature Heather Calder      Date 10/14/2013

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)



## **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 11 T9S, R17E  
X-2-9-17  
Wellbore #1**

**Design: Actual**

## **End of Well Report**

**02 September, 2013**





## Payzone Directional

### End of Well Report



<b>Company:</b> NEWFIELD EXPLORATION <b>Project:</b> USGS Myton SW (UT) <b>Site:</b> SECTION 11 T9S, R17E <b>Well:</b> X-2-9-17 <b>Wellbore:</b> Wellbore #1 <b>Design:</b> Actual		<b>Local Co-ordinate Reference:</b> Well X-2-9-17 X-2-9-17 @ 5097.0ft (Capstar 329) X-2-9-17 @ 5097.0ft (Capstar 329) True Minimum Curvature EDM 2003.21 Single User Db	
<b>Project</b> USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		<b>System Datum:</b> Mean Sea Level	
<b>Map System:</b> US State Plane 1983 <b>Geo Datum:</b> North American Datum 1983 <b>Map Zone:</b> Utah Central Zone			
<b>Site</b> SECTION 11 T9S, R17E			
<b>Site Position:</b> From: Lat/Long Position Uncertainty: 0.0 ft		Northing: 7,188,850.00 ft Easting: 2,065,692.96 ft Slot Radius: Latitude: 40° 2' 42.884 N Longitude: 109° 58' 25.383 W Grid Convergence: 0.98 °	
<b>Well</b> X-2-9-17, SHL LAT: 40 03 03.38 LONG: -109 58 50.50			
<b>Well Position</b> +N/-S 0.0 ft +E/-W 0.0 ft Position Uncertainty 0.0 ft		Northing: 7,190,890.28 ft Easting: 2,065,692.96 ft Wellhead Elevation: 5,097.0 ft Latitude: 40° 3' 3.380 N Longitude: 109° 58' 50.500 W Ground Level: 5,087.0 ft	
<b>Wellbore</b> Wellbore #1			
<b>Magnetics</b>		<b>Field Strength</b> (nT) 52,183	
<b>Design</b> Actual		<b>Dip Angle</b> (°) 65.79	
<b>Audit Notes:</b>		<b>Declination</b> (°) 11.14	
<b>Version:</b> 1.0		<b>Sample Date</b> 7/9/2012	
<b>Vertical Section:</b>		<b>Tie On Depth:</b> 0.0	
Depth From (TVD) (ft) 0.0		+N/-S (ft) 0.0	
+E/-W (ft) 0.0		Direction (°) 44.22	
<b>Survey Program</b>			
From (ft) 370.0		Date 9/2/2013	
To (ft) 6,194.0		Survey (Wellbore) Survey #1 (Wellbore #1)	
Survey #1 (Wellbore #1)		Tool Name MWD	
Description MWD - Standard			



# Payzone Directional

## End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Mylon SW (UT)  
**Site:** SECTION 11 T9S, R17E  
**Well:** X-2-9-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well X-2-9-17  
**TVD Reference:** X-2-9-17 @ 5097.0ft (Capstar 329)  
**MD Reference:** X-2-9-17 @ 5097.0ft (Capstar 329)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

Survey	MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	370.0	0.40	341.70	370.0	0.6	1.2	-0.4	0.11	0.11	0.00
	461.0	0.30	346.10	461.0	0.9	1.8	-0.6	0.11	-0.11	4.84
	521.0	0.70	359.80	521.0	1.2	2.3	-0.6	0.69	0.67	22.83
	551.0	1.10	20.80	551.0	1.6	2.7	-0.5	1.71	1.33	70.00
	580.0	1.40	22.60	580.0	2.2	3.3	-0.3	1.04	1.03	6.21
	611.0	1.60	26.60	611.0	3.0	4.1	0.1	0.73	0.65	12.90
	641.0	1.90	30.40	641.0	3.8	4.9	0.5	1.07	1.00	12.67
	671.0	2.20	31.50	670.9	4.9	5.8	1.1	1.01	1.00	3.67
	702.0	2.60	32.10	701.9	6.2	6.9	1.8	1.29	1.29	1.94
	732.0	2.60	32.50	731.9	7.5	8.0	2.5	0.06	0.00	1.33
	763.0	2.80	37.90	762.8	8.9	9.2	3.3	1.04	0.65	17.42
	794.0	3.00	45.40	793.8	10.5	10.4	4.4	1.38	0.65	24.19
	824.0	3.40	50.40	823.8	12.2	11.5	5.6	1.62	1.33	16.67
	854.0	3.80	50.20	853.7	14.0	12.7	7.1	1.33	1.33	-0.67
	885.0	4.40	47.40	884.6	16.2	14.2	8.7	2.04	1.94	-9.03
	916.0	4.80	46.40	915.5	18.7	15.9	10.5	1.32	1.29	-3.23
	947.0	5.10	45.40	946.4	21.4	17.7	12.5	1.01	0.97	-3.23
	977.0	5.40	46.20	976.3	24.1	19.6	14.4	1.03	1.00	2.67
	1,007.0	5.80	45.80	1,006.1	27.1	21.7	16.5	1.34	1.33	-1.33
	1,037.0	6.30	45.30	1,036.0	30.2	23.9	18.8	1.68	1.67	-1.67
	1,068.0	6.90	46.50	1,066.8	33.8	26.4	21.3	1.99	1.94	3.87
	1,112.0	7.40	47.70	1,110.4	39.3	30.1	25.4	1.19	1.14	2.73
	1,156.0	8.20	47.60	1,154.0	45.2	34.1	29.8	1.82	1.82	-0.23
	1,199.0	8.70	46.30	1,196.5	51.5	38.4	34.4	1.24	1.16	-3.02
	1,243.0	9.00	46.00	1,240.0	58.3	43.1	39.3	0.69	0.68	-0.68
	1,287.0	9.50	47.10	1,283.5	65.4	48.0	44.4	1.21	1.14	2.50



# Payzone Directional

## End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Mylon SW (UT)  
**Site:** SECTION 11 T9S, R17E  
**Well:** X-2-9-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:**  
**TVD Reference:** Well X-2-9-17  
**MD Reference:** X-2-9-17 @ 5097.0ft (Capstar 329)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

Survey	MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)
	1,331.0	10.10	47.30	1,326.8	72.8	53.1	49.9	1.37	1.36	0.45
	1,375.0	10.40	45.60	1,370.1	80.7	58.5	55.6	0.97	0.68	-3.86
	1,418.0	10.60	42.40	1,412.4	88.5	64.1	61.0	1.43	0.47	-7.44
	1,462.0	10.70	41.00	1,455.6	96.6	70.2	66.4	0.63	0.23	-3.18
	1,506.0	11.50	40.90	1,498.8	105.1	76.6	72.0	1.82	1.82	-0.23
	1,550.0	12.00	41.60	1,541.9	114.0	83.3	77.9	1.18	1.14	1.59
	1,594.0	12.30	41.70	1,584.9	123.3	90.2	84.0	0.68	0.68	0.23
	1,636.0	12.50	42.50	1,625.9	132.3	96.9	90.1	0.63	0.48	1.90
	1,680.0	13.10	43.50	1,668.8	142.0	104.1	96.7	1.45	1.36	2.27
	1,724.0	13.60	44.00	1,711.6	152.2	111.4	103.8	1.17	1.14	1.14
	1,768.0	13.70	44.30	1,754.4	162.6	118.8	111.0	0.28	0.23	0.68
	1,811.0	13.90	43.80	1,796.2	172.8	126.2	118.1	0.54	0.47	-1.16
	1,855.0	14.00	43.50	1,838.9	183.4	133.9	125.4	0.28	0.23	-0.68
	1,899.0	13.80	43.80	1,881.6	194.0	141.5	132.7	0.48	-0.45	0.68
	1,943.0	14.10	45.00	1,924.3	204.6	149.1	140.2	0.95	0.68	2.73
	1,986.0	14.00	44.80	1,966.0	215.1	156.5	147.5	0.26	-0.23	-0.47
	2,030.0	13.50	45.50	2,008.7	225.5	163.9	154.9	1.20	-1.14	1.59
	2,074.0	13.40	45.70	2,051.5	235.7	171.0	162.3	0.25	-0.23	0.45
	2,117.0	13.20	45.90	2,093.4	245.6	177.9	169.3	0.48	-0.47	0.47
	2,160.0	13.10	46.60	2,135.2	255.4	184.7	176.4	0.44	-0.23	1.63
	2,204.0	12.70	45.70	2,178.1	265.2	191.5	183.5	1.02	-0.91	-2.05
	2,248.0	12.40	45.20	2,221.1	274.8	198.2	190.3	0.73	-0.68	-1.14
	2,292.0	12.50	45.10	2,264.0	284.3	204.9	197.0	0.23	0.23	-0.23
	2,336.0	12.90	45.40	2,307.0	293.9	211.7	203.9	0.92	0.91	0.68
	2,380.0	13.00	44.60	2,349.8	303.8	218.7	210.9	0.47	0.23	-1.82
	2,422.0	13.40	43.50	2,390.7	313.4	225.6	217.5	1.12	0.95	-2.62
	2,466.0	12.80	43.10	2,433.6	323.4	232.8	224.4	1.38	-1.36	-0.91



# Payzone Directional

## End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Mylon SW (UT)  
**Site:** SECTION 11 T9S, R17E  
**Well:** X-2-9-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:**  
**TVD Reference:** Well X-2-9-17  
**MD Reference:** X-2-9-17 @ 5097.0ft (Capstar 329)  
**North Reference:** X-2-9-17 @ 5097.0ft (Capstar 329)  
**Survey Calculation Method:** True  
**Database:** Minimum Curvature  
 EDM 2003.21 Single User Db

Survey	MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)
	2,509.0	12.70	42.70	2,475.5	332.8	239.8	230.8	0.31	-0.23	-0.93
	2,553.0	12.50	42.00	2,518.5	342.4	246.9	237.3	0.57	-0.45	-1.59
	2,596.0	12.00	41.90	2,560.5	351.6	253.7	243.4	1.16	-1.16	-0.23
	2,640.0	11.30	42.20	2,603.6	360.4	260.3	249.4	1.60	-1.59	0.68
	2,683.0	11.20	43.10	2,645.8	368.8	266.4	255.0	0.47	-0.23	2.09
	2,726.0	11.00	44.40	2,687.9	377.1	272.4	260.8	0.75	-0.47	3.02
	2,770.0	11.10	45.10	2,731.1	385.5	278.4	266.7	0.38	0.23	1.59
	2,814.0	11.50	43.10	2,774.3	394.2	284.6	272.7	1.27	0.91	-4.55
	2,857.0	11.90	44.10	2,816.4	402.9	290.9	278.7	1.04	0.93	2.33
	2,900.0	12.40	44.80	2,858.4	411.9	297.4	285.1	1.21	1.16	1.63
	2,944.0	13.40	46.00	2,901.3	421.7	304.3	292.1	2.35	2.27	2.73
	2,988.0	14.30	47.50	2,944.0	432.3	311.5	299.7	2.20	2.05	3.41
	3,031.0	13.90	45.70	2,985.7	442.7	318.7	307.3	1.38	-0.93	-4.19
	3,075.0	13.60	45.10	3,028.5	453.2	326.0	314.8	0.75	-0.68	-1.36
	3,119.0	14.20	46.10	3,071.2	463.7	333.4	322.3	1.47	1.36	2.27
	3,163.0	14.90	46.80	3,113.8	474.8	341.0	330.4	1.64	1.59	1.59
	3,205.0	15.20	46.90	3,154.3	485.7	348.5	338.3	0.72	0.71	0.24
	3,248.0	15.50	46.10	3,195.8	497.1	356.3	346.6	0.85	0.70	-1.86
	3,291.0	15.20	44.50	3,237.3	508.4	364.3	354.7	1.21	-0.70	-3.72
	3,335.0	15.07	43.70	3,279.7	519.9	372.6	362.6	0.56	-0.30	-1.82
	3,378.0	14.80	42.30	3,321.3	531.0	380.7	370.2	1.05	-0.63	-3.26
	3,421.0	14.20	41.90	3,362.9	541.8	388.7	377.4	1.41	-1.40	-0.93
	3,465.0	14.20	43.70	3,405.6	552.6	396.6	384.8	1.00	0.00	4.09
	3,509.0	14.60	44.10	3,448.2	563.5	404.5	392.3	0.94	0.91	0.91
	3,553.0	14.50	42.70	3,490.8	574.6	412.5	399.9	0.83	-0.23	-3.18
	3,596.0	13.89	41.73	3,532.5	585.1	420.3	407.0	1.52	-1.42	-2.26
	3,640.0	13.30	40.20	3,575.2	595.4	428.1	413.8	1.57	-1.34	-3.48



## Payzone Directional

### End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 11 T9S, R17E  
**Well:** X-2-9-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well X-2-9-17  
**TVD Reference:** X-2-9-17 @ 5097.0ft (Capstar 329)  
**MD Reference:** X-2-9-17 @ 5097.0ft (Capstar 329)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

Survey	MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	NIS (ft)	E/W (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)
	3,683.0	13.30	41.10	3,617.1	605.3	435.6	420.3	0.48	0.00	2.09
	3,727.0	12.60	40.80	3,660.0	615.1	443.1	426.7	1.60	-1.59	-0.68
	3,771.0	12.70	40.50	3,702.9	624.7	450.4	433.0	0.27	0.23	-0.68
	3,814.0	12.70	42.30	3,744.8	634.2	457.5	439.2	0.92	0.00	4.19
	3,857.0	13.00	45.40	3,786.8	643.7	464.4	445.9	1.75	0.70	7.21
	3,901.0	12.70	46.70	3,829.7	653.5	471.2	452.9	0.95	-0.68	2.95
	3,945.0	12.90	45.60	3,872.6	663.3	477.9	459.9	0.72	0.45	-2.50
	3,988.0	13.10	45.10	3,914.5	672.9	484.7	466.8	0.53	0.47	-1.16
	4,032.0	13.20	43.90	3,957.3	683.0	491.8	473.8	0.66	0.23	-2.73
	4,076.0	12.70	43.20	4,000.2	692.8	499.0	480.6	1.19	-1.14	-1.59
	4,120.0	12.50	43.10	4,043.1	702.4	506.0	487.2	0.46	-0.45	-0.23
	4,163.0	12.30	43.60	4,085.1	711.6	512.7	493.5	0.53	-0.47	1.16
	4,206.0	12.60	43.40	4,127.1	720.9	519.4	499.9	0.70	0.70	-0.47
	4,249.0	12.70	43.00	4,169.1	730.3	526.3	506.4	0.31	0.23	-0.93
	4,293.0	12.60	42.80	4,212.0	740.0	533.4	512.9	0.25	-0.23	-0.45
	4,336.0	12.60	41.70	4,254.0	749.3	540.3	519.2	0.56	0.00	-2.56
	4,380.0	12.30	41.20	4,296.9	758.8	547.4	525.5	0.72	-0.68	-1.14
	4,423.0	12.30	42.00	4,339.0	768.0	554.3	531.6	0.40	0.00	1.86
	4,466.0	12.40	44.20	4,381.0	777.2	561.0	537.9	1.12	0.23	5.12
	4,509.0	11.90	45.50	4,423.0	786.2	567.4	544.3	1.33	-1.16	3.02
	4,553.0	11.80	45.80	4,466.1	795.2	573.7	550.7	0.27	-0.23	0.68
	4,597.0	11.60	47.50	4,509.1	804.1	579.8	557.2	0.91	-0.45	3.86
	4,640.0	11.70	47.30	4,551.3	812.8	585.7	563.6	0.25	0.23	-0.47
	4,684.0	11.90	46.80	4,594.3	821.8	591.8	570.2	0.51	0.45	-1.14
	4,728.0	12.50	46.90	4,637.3	831.1	598.2	577.0	1.36	1.36	0.23
	4,771.0	12.60	46.80	4,679.3	840.4	604.6	583.8	0.24	0.23	-0.23
	4,815.0	12.80	46.00	4,722.2	850.1	611.3	590.8	0.61	0.45	-1.82





## Payzone Directional

### End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 11 T9S, R17E  
**Well:** X-2-9-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well X-2-9-17  
**TVD Reference:** X-2-9-17 @ 5097.0ft (Capstar 329)  
**MD Reference:** X-2-9-17 @ 5097.0ft (Capstar 329)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

Survey	MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)
	4,856.0	12.80	45.70	4,764.2	859.6	617.9	597.6	0.15	0.00	-0.70
	4,902.0	12.70	44.90	4,807.1	869.3	624.7	604.5	0.46	-0.23	-1.82
	4,944.0	12.50	43.30	4,848.1	878.5	631.3	610.9	0.96	-0.48	-3.81
	4,988.0	11.90	43.10	4,891.1	887.8	638.1	617.3	1.37	-1.36	-0.45
	4,993.6	11.89	43.10	4,896.5	888.9	638.9	618.0	0.23	-0.23	0.00
<b>X-2-9-17 TGT</b>										
	5,032.0	11.80	43.10	4,934.1	896.8	644.7	623.4	0.23	-0.23	0.00
	5,075.0	12.20	43.90	4,976.2	905.8	651.2	629.6	1.01	0.93	1.86
	5,118.0	12.30	43.90	5,018.2	914.9	657.7	635.9	0.23	0.23	0.00
	5,161.0	12.30	43.90	5,060.2	924.0	664.3	642.3	0.00	0.00	0.00
	5,205.0	11.80	44.20	5,103.3	933.2	670.9	648.7	1.15	-1.14	0.68
	5,249.0	12.40	45.20	5,146.3	942.4	677.5	655.1	1.44	1.36	2.27
	5,293.0	12.20	45.70	5,189.3	951.8	684.1	661.8	0.51	-0.45	1.14
	5,336.0	12.30	44.90	5,231.3	960.9	690.5	668.3	0.46	0.23	-1.86
	5,380.0	12.70	45.50	5,274.2	970.5	697.2	675.1	0.96	0.91	1.36
	5,424.0	12.90	46.60	5,317.2	980.2	704.0	682.1	0.72	0.45	2.50
	5,468.0	13.20	45.30	5,360.0	990.1	710.9	689.2	0.95	0.68	-2.95
	5,512.0	12.80	43.40	5,402.9	1,000.0	717.9	696.1	1.33	-0.91	-4.32
	5,555.0	13.10	43.50	5,444.8	1,009.7	724.9	702.8	0.70	0.70	0.23
	5,599.0	13.90	44.10	5,487.6	1,019.9	732.4	709.9	1.85	1.82	1.36
	5,643.0	14.00	44.60	5,530.3	1,030.5	739.9	717.3	0.36	0.23	1.14
	5,687.0	14.10	44.80	5,573.0	1,041.2	747.5	724.8	0.25	0.23	0.45
	5,731.0	13.80	44.90	5,615.7	1,051.8	755.0	732.3	0.68	-0.68	0.23
	5,774.0	13.40	44.00	5,657.5	1,061.9	762.3	739.4	1.05	-0.93	-2.09
	5,818.0	13.10	45.20	5,700.3	1,072.0	769.4	746.5	0.92	-0.68	2.73
	5,862.0	13.00	45.80	5,743.2	1,082.0	776.4	753.5	0.38	-0.23	1.36
	5,906.0	12.50	45.90	5,786.1	1,091.7	783.2	760.5	1.14	-1.14	0.23



## Payzone Directional End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Mylon SW (UT)  
**Site:** SECTION 11 T9S, R17E  
**Well:** X-2-9-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well X-2-9-17  
**TVD Reference:** X-2-9-17 @ 5097.0ft (Capstar 329)  
**MD Reference:** X-2-9-17 @ 5097.0ft (Capstar 329)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

Survey	MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)
	5,949.0	12.00	45.60	5,828.1	1,100.8	789.5	767.0	1.17	-1.16	-0.70
	5,993.0	11.40	45.40	5,871.2	1,109.7	795.8	773.4	1.37	-1.36	-0.45
	6,037.0	10.60	45.10	5,914.4	1,118.1	801.7	779.4	1.82	-1.82	-0.68
	6,080.0	9.70	45.80	5,956.7	1,125.7	807.0	784.8	2.11	-2.09	1.63
	6,140.0	8.80	45.80	6,015.9	1,135.3	813.7	791.7	1.50	-1.50	0.00
	6,194.0	8.80	45.80	6,069.3	1,143.6	819.5	797.6	0.00	0.00	0.00

Checked By: \_\_\_\_\_

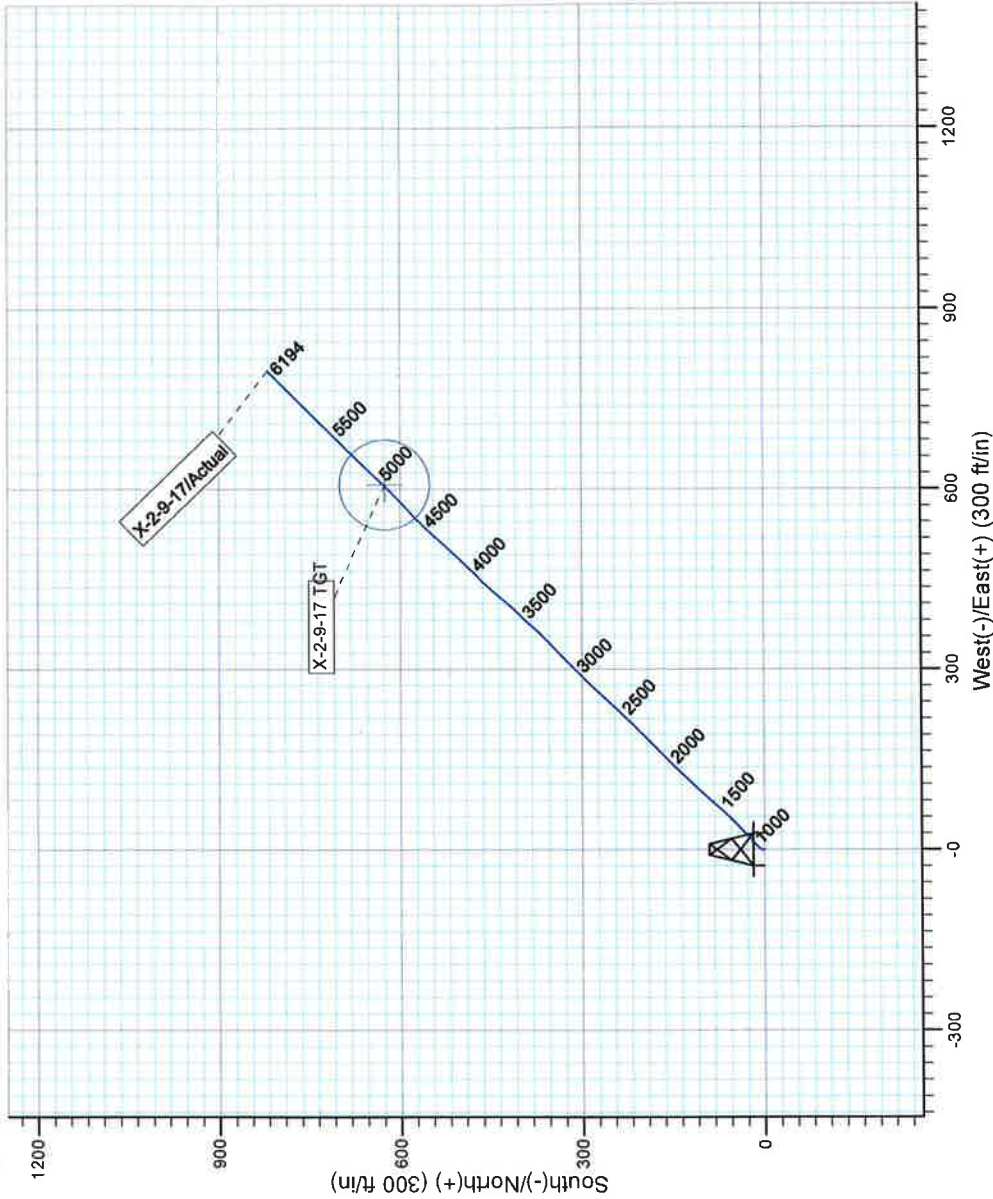
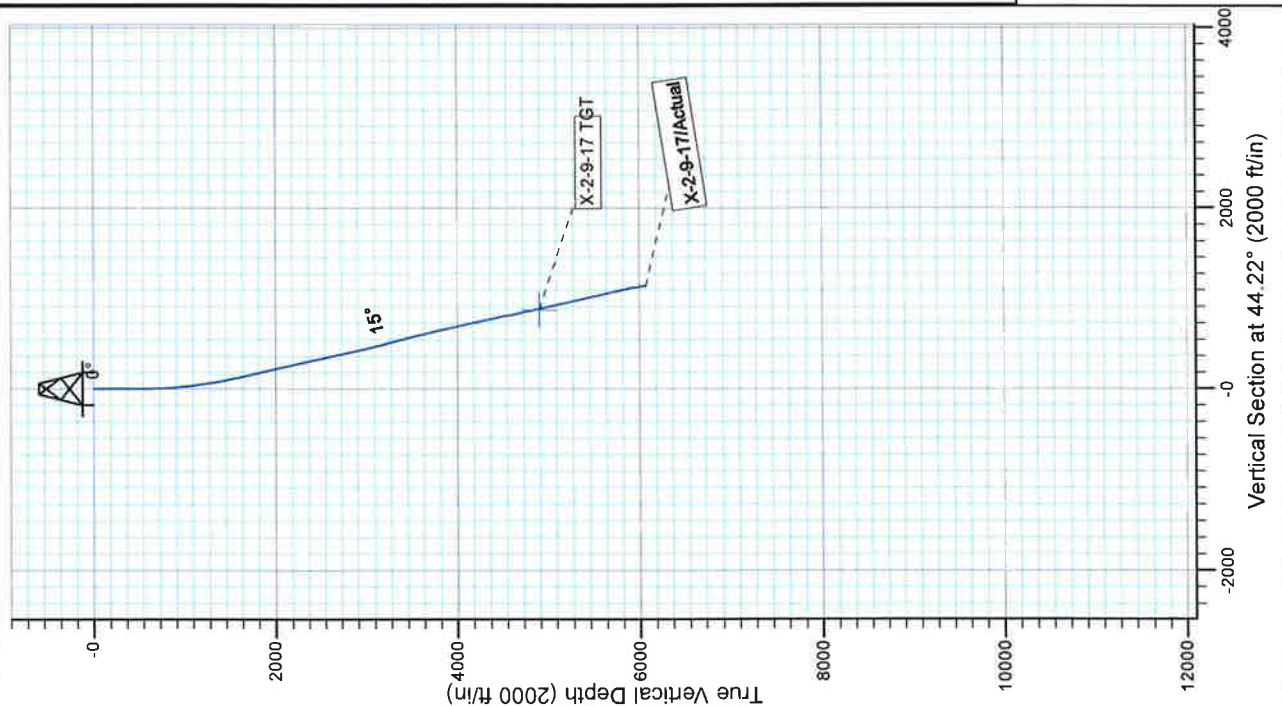
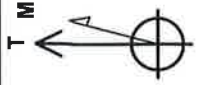
Approved By: \_\_\_\_\_

Date: \_\_\_\_\_



Project: USGS Myton SW (UT)  
 Site: SECTION 11 T9S, R17E  
 Well: X-2-9-17  
 Wellbore: Wellbore #1  
 Design: Actual

Azimuths to True North  
 Magnetic North: 11.14°  
 Magnetic Field  
 Strength: 52183.0nT  
 Dip Angle: 65.79°  
 Date: 7/9/2012  
 Model: IGRF2010



Design: Actual (X-2-9-17/Wellbore #1)

Created By: Sarah Wells Date: 17:53, September 02 2011

THIS SURVEY IS CORRECT TO THE BEST OF  
 MY KNOWLEDGE AND IS SUPPORTED  
 BY ACTUAL FIELD DATA



NEWFIELD



Well Name: GMBU X-2-9-17

## Summary Rig Activity

Job Category	Job Start Date	Job End Date

Daily Operations			
Report Start Date	Report End Date	24hr Activity Summary	
9/9/2013	9/10/2013	CBL/psi test/perf stg1	
Start Time	End Time	End Time	Comment
00:00	06:00		
Start Time	End Time	End Time	Comment
06:00	07:00		RU Extreme wireline
Start Time	End Time	End Time	Comment
07:00	09:00		Run CBL from 6110' to surface under 0 psi. Estimated cement top @ 34. SJ @ 3621-38'.
Start Time	End Time	End Time	Comment
09:00	11:00		PSI test csg/BOPs & frac valve-good tests
Start Time	End Time	End Time	Comment
11:00	12:00		Perforate stg 1 @ CP2 5630-34', CP1 5598-99', 5595-97'.
Report Start Date	Report End Date	24hr Activity Summary	
9/11/2013	9/12/2013	frac 3 of 3 stgs, flowback well	
Start Time	End Time	End Time	Comment
00:00	06:00		
Start Time	End Time	End Time	Comment
06:00	08:30		RU Baker Hughes frac equipment/Extreme wireline
Start Time	End Time	End Time	Comment
08:30	09:00		Safety/JSA mtg with all hands on location. PSI test all frac iron & gas lines-good tests
Start Time	End Time	End Time	Comment
09:00	11:00		Stage #1, CP2 & CP1 sands. 14 psi on well. Frac CP1 & CP2 sds w/50,416#s of 20/40 White sand in 270 bbls Lightning 17 fluid. Broke @ 3266 psi @ 2.7 BPM. ISIP 1689 psi, FG=.75, 1 min SIP 1548 psi, 4 min SIP 1476 psi. Treated w/ ave pressure of 2935 psi @ ave rate of 38.4 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISDP 1716 psi. FG=.75, 5 min SIP 1616 psi, 10 min SIP 1578 psi, 15 min SIP 1538 psi. Leave pressure on well. RU Extreme WLT, crane & lubricator. Pressure test lubricator to 4000 psi w/BakerHughes blender. RIH w/ Weatherford 5-1/2" 5K total composite flow through frac plug, perf guns. Set plug @ 4930'. Perforate C, D2 & D1 @ 4840-44, 4834-36', 4764-66', 4698-700' w/ 3 1/8" slick guns (16g, 0.34 EH, 21.00 pen) w/ 3 spf for total of 30 shots. Misfire of D1 gun, it fired @ 4834-36. Run CBL tool to determine perf location, re-fire D1 perfs. 351 total BWTR
Start Time	End Time	End Time	Comment
11:00	12:30		Stage #2, C, D2 & D1 sands. 1468 psi on well. Frac C, D2 & D1 sds w/65,657#s of 20/40 White sand in 343 bbls Lightning 17 fluid. Broke @ 2648 psi @ 11.4 BPM. Treated w/ ave pressure of 3072 psi @ ave rate of 42.9 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISDP 1919 psi. FG=.86, 5 min SIP 1753 psi, 10 min SIP 1706 psi, 15 min SIP 1675 psi. Leave pressure on well. RU Extreme WLT, crane & lubricator. Pressure test lubricator to 4000 psi w/BakerHughes blender. RIH w/ Weatherford 5-1/2" 5K total composite flow through frac plug, perf guns. Set plug @ 4320'. Perforate GB6 & GB4 @ 4244-48', 4194-95', 4189-91' w/ 3 1/8" slick guns (16g, 0.34 EH, 21.00 pen) w/2 spf for total of 14 shots. 428 total BWTR
Start Time	End Time	End Time	Comment
12:30	13:15		Stage #3, GB6 & GB4 sands. 1414 psi on well. Frac GB6 & GB4 sds w/60,119#s of 20/40 White sand in 324 bbls Lightning 17 fluid. Broke @ 1616 psi @ 3.4 BPM. Treated w/ ave pressure of 2912 psi @ ave rate of 42.1 BPM. ISDP 2068 psi. FG=.94, 5 min SIP 1884 psi, 10 min SIP 1808 psi, 15 min SIP 1748 psi. 399 total BWTR
Start Time	End Time	End Time	Comment
13:15	16:30		Flowback well-return approx. 600 bbls
Start Time	End Time	End Time	Comment
16:30	23:30		Well turned to oil, close well in.
Report Start Date	Report End Date	24hr Activity Summary	
9/12/2013	9/13/2013	set KP, secure well	



Well Name: GMBU X-2-9-17

## Summary Rig Activity

Start Time	00:00	End Time	10:00
Start Time	10:00	End Time	11:00
Start Time	11:00	End Time	00:00
Report Start Date	Report End Date	24hr Activity Summary	
9/19/2013	9/20/2013	MIRU/NU pipe rams/test/RIH w/tbg	
Start Time	00:00	End Time	06:00
Start Time	06:00	End Time	07:00
Start Time	07:00	End Time	11:45
Start Time	11:45	End Time	16:30
Start Time	16:30	End Time	18:00
Start Time	18:00	End Time	19:00
Start Time	19:00	End Time	00:00
Report Start Date	Report End Date	24hr Activity Summary	
9/20/2013	9/21/2013	DO/CO to PBTD. Circ clean.	
Start Time	00:00	End Time	06:00
Start Time	06:00	End Time	07:09
Start Time	07:09	End Time	09:18
Start Time	09:18	End Time	10:09
Start Time	10:09	End Time	10:39
Start Time	10:39	End Time	11:09
Start Time	11:09	End Time	12:03
Start Time	12:03	End Time	12:33
Start Time	12:33	End Time	14:03
Start Time	14:03	End Time	15:03
Start Time	15:03	End Time	16:03
Start Time	16:03	End Time	17:03
Start Time	17:03	End Time	18:03
Start Time	18:03	End Time	00:00
Comment			
RIH w/Halliburton solid plug. Set KP @ 4100'. Bleed off well.			
Comment			
Comment			
Comment			
RDMO Ashley 13-12-9-15, move to X-2-9-17. ND frac valve, NU BOPs/rig floor.			
Comment			
RU 4G, test BOPs-good tests. unload & drift tbg while testing.			
Comment			
MU R1H w/4 3/4" chomp bit, SIH w/tbg, 80 jts 2 7/8" J-55. EOT @ 2532'			
Comment			
Comment			
Comment			
Comment			
Circ for 15 min. cont RIH w/ tbg to tag plug @ 4305' with jnt # 136.			
Comment			
DO KP @ 4100'.			
Comment			
Circ well while eating lunch. Cont RIH w/ tbg.			
Comment			
Tag plug @ 4909' w/ jnt 155. RU and DO plug. Circ for 15 min.			
Comment			
Cont to TIH to tag fill @ 6073'.			
Comment			
DO/CO 46' fill to PBTD @ 6119'.			
Comment			
Circ well cln.			
Comment			
LD a total of 19 jnts. EOT @ 5681'.			
Comment			



Well Name: GMBU X-2-9-17

## Summary Rig Activity

API Well Number: 43013517340000

## Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
9/23/2013	9/24/2013	TIH w/ prod string. ND BOPS, set anchor, land tbg. X-over and run pump and rods. POP well.
Start Time	End Time	Comment
00:00	06:30	
Start Time	End Time	Comment
06:30	07:00	
Start Time	End Time	Comment
07:00	08:00	SITP 500, SICP 500. Circ well w/ 100 bbls 7% KCL
Start Time	End Time	Comment
08:00	09:30	POOH w/ 179 jnts.
Start Time	End Time	Comment
09:30	10:39	RBIH w/ NC, 2 jnts, SN, 1 jnt, 5.5" TAC w/ carbide slips, and 176 jnts.
Start Time	End Time	Comment
10:39	12:00	Pre set TAC, land well w/ hanger, RD floor, ND BOPS,
Start Time	End Time	Comment
12:00	12:45	Circulate well dead.
Start Time	End Time	Comment
12:45	14:00	PU and set TAC @ 5591' w/ 18,000K # tension. Land w/ hanger NU WH. PSN @ 5633'. EOT @ 5698'. X-over to rod equipment.
Start Time	End Time	Comment
14:00	18:00	Pu and prime Central Hyd pump 1.75 X 24' RHAC. PU rods, 28- 7/8 8 pers, 113- 3/4 4 pers, 82- 7/8 4 pers, 1-8', 1-6', 1-4', 1-2' 7/8" pony's. Seat pump with 1.5"X30' polish rod. Hang the head. Stroke test with the unit to 800 psi. - good test. SWIFN. Hand over to Production.
Start Time	End Time	Comment
18:00	19:00	Rig down WOR.

RECEIVED: Oct. 15, 2013